



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

# The Communiqué

*(Capturing Moments, Preserving Memories)*

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*An Institution of Excellence*

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## ***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.





**Dr. Rajdeep Singh**  
**Campus Director**  
**CGC Landran, Mohali**

**Dear Students, Faculty, and Staff,**

As we conclude another inspiring quarter, I am filled with gratitude as I reflect on the remarkable contributions and unwavering spirit of our campus community. Just like previous quarters, this quarter has also showcased our institution's dedication to fostering not only academic achievements but also personal growth and social responsibility. Our students have excelled in various arenas. Their achievements highlight the essence of education, which transcends traditional learning and emphasizes the importance of developing compassionate and engaged citizens.

I am particularly heartened by the creative approaches our faculty have adopted, cultivating engaging and interactive learning experiences that spark curiosity and encourage critical thinking. The commitment of our educators to guide and support students in their academic journeys remains a vital element of our collective success.

As we move forward into the upcoming months, I encourage each member of our organization to welcome new opportunities with enthusiasm and resilience. Whether you are delving into research, engaging in extracurricular activities, or pursuing new passions, remember that every endeavour plays a crucial role in your personal and professional development.

Let us continue to strengthen our commitment to excellence, diversity, and innovation. Together, we can accomplish remarkable feats.

Wishing you all ongoing success and personal fulfilment!!



**Dr. Ashok Kumar**  
**Director Academics**

**Dear Faculty, Staff and Students,**

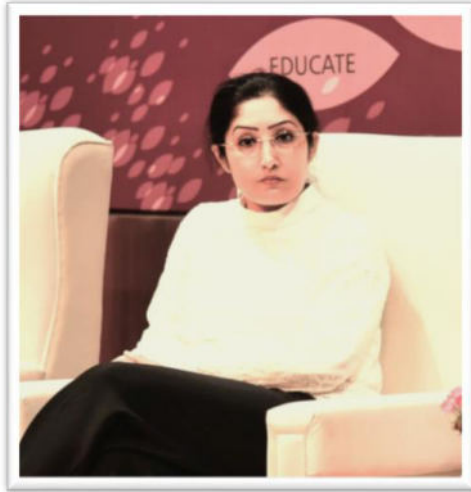
As we turn the pages of yet another enriching quarter, it is with profound gratitude and admiration that I reflect upon the myriad of activities that have unfolded within our hallowed halls. Each event, whether academic, cultural, or extracurricular, has not only showcased the remarkable talents of our students but has also fostered a vibrant tapestry of collaboration and innovation that defines our institution.

I extend my heartfelt appreciation to all who have contributed to the success of these initiatives. Your unwavering commitment and enthusiasm have illuminated our campus, creating an environment where learning transcends the confines of the classroom. It is this spirit of engagement that propels us forward, inspiring both personal and collective growth.

To our new students of 2025 Batch, I extend a warm and heartfelt welcome. You are now part of a legacy steeped in excellence and camaraderie. Embrace the opportunities that lie ahead, for they are the stepping stones to your future endeavors. Engage with your peers, challenge your intellect, and immerse yourself in the rich experiences that our organization has to offer. We are here to support you every step of the way.

I would also like to take this opportunity to commend our exceptional editorial team for their tireless efforts in bringing this quarterly magazine to fruition.

As we look ahead to the coming months, let us steadfastly nurture an environment defined by excellence, curiosity, and mutual respect. I urge our faculty and staff to engage proactively with the rapidly evolving technological landscape, harnessing the transformative power of AI to innovate in teaching, research, and institutional initiatives. By remaining attuned to these advancements, we will not only elevate the stature of our institution but will also equip our students to flourish in an increasingly dynamic and complex world. **Together, we can achieve remarkable heights. Wishing everyone good luck!!**



### ***From the Editor's Desk....***

**Dear Readers,**

It gives me immense pleasure to present the **37th edition of Communiqué**, the quarterly publication of CEC-CGC. This volume stands as a testament to our institution's evolving academic ethos—where heritage does not merely coexist with progress, but actively shapes it. Communiqué continues to grow as an intellectual archive, capturing the ongoing journey of our college community.

In these pages, readers will find ideas that challenge, inspire, and encourage reflection. The magazine features perspectives shaped by thoughtful inquiry and keen observation. Rather than simply reporting activities, it showcases the essence of academic growth—how knowledge is questioned, refined, and applied. The contributions within reflect a culture where learning is not confined to curriculum, but expands into a spirit of exploration. We are proud to highlight the accomplishments of our students and faculty who continue to excel in academic, cultural, and technical pursuits.

This edition is the result of sustained effort, creative collaboration, and a shared belief in the value of intellectual expression. Every contributor—writers, editors, mentors, and designers—has shaped Communiqué into more than a magazine. It is a shared space of curiosity and thought, offering readers a chance to pause, reflect, and grow.

I invite you to immerse yourself in this edition and experience the vibrant academic life of CEC-CGC. May these pages inspire new ideas, spark meaningful conversations, and continue the spirit of lifelong learning.

**Dr. Inderjot Kaur**  
**Editor-in-Chief**

## **RANKING & AWARDS 2025**

**1 Chandigarh Engineering College (CEC)-CGC Landran** has been conferred with the prestigious **Platinum Rating certification in the QS I-GAUGE College Ratings 2025. The detail is given below:**

- Teaching and Learning-Platinum
- Faculty Quality-Platinum
- Employability-Platinum
- Diversity and Accessibility-Platinum
- Facilities-Platinum
- Social Responsibility-Platinum
- Governance and Structure-Platinum
- Entrepreneurship-Platinum
- Innovation-Platinum

**2 Outlook I-Care Rankings 2025-India's Best Colleges**

- 50<sup>th</sup> Rank among top 200 private institutes in India.
- 2<sup>nd</sup> Rank among private institutes in Punjab including University's Institutes
- 1<sup>st</sup> Rank among private colleges in Punjab (excluding university's Institutes)

**3 India Today Ranking 2025**

- 1<sup>st</sup> Rank in Private Colleges in Punjab (Self-Financed).
- 52<sup>nd</sup> Rank across country's Private Colleges.
- 80<sup>th</sup> Rank across country's Private and Govt Colleges

**4 THE WEEK-Hansa Research Survey 2025**

- 1<sup>st</sup> Rank in Private College in Punjab (Self-Financed).
- 2<sup>nd</sup> Rank in Private Colleges (Including Universities) in Punjab.
- 62<sup>nd</sup> Rank in Govt and Private Institutes all Over India.
- 37<sup>th</sup> Rank in Private Colleges all over India.
- 8<sup>th</sup> in North Zone Govt and Private Colleges in all over India.

**5 Chandigarh Engineering College-CGC, Landran** has been ranked 7<sup>th</sup> in Punjab in the **Education World India Higher Education Rankings 2025-26** under the category **Private Engineering Institutes.**

**6 GHRDC Engineering College Survey 2025**

- Overall 11<sup>th</sup> Position in Ranking of Top Engineering Colleges in India.
- 4<sup>th</sup> Position in Ranking of Top Engineering Colleges of Emerging Super Excellence in India.
- 2<sup>nd</sup> position in Ranking of Engineering Colleges by State (Punjab).
- 5<sup>th</sup> position in Ranking of Engineering Colleges by Region (North).

## **7 Dataquest T School Rankings 2025**

- 4<sup>th</sup> rank in the Northern Region.
- 13<sup>th</sup> rank among the Top Private T-Schools in India.
- 16<sup>th</sup> rank among Top 100 T-Schools (Government and Private) in India.
- 41<sup>st</sup> rank among Top 50 T-Schools (North Zone).

**8 Chandigarh Engineering College-CGC Landran, Punjab, has been selected for certification under the prestigious "Institution of Happiness (IOH)" project 2024** conducted by QS I-GAUGE.

## **9 NAAC A+ Grade obtained in March 2024**

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

## **10 Dataquest Tech School survey, 2024**

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

## **11 India Today Ranking 2024**

- 7<sup>th</sup> In Top 10 Colleges with Best Value for Money (Private All Over India)
- 1<sup>st</sup> Rank in Private College in Punjab (Self-Financed)
- 57<sup>th</sup> Rank across country Private Colleges
- 85<sup>th</sup> Rank across country Private and Govt Colleges

## **12 DQ-CMR T-School Employability Index Survey 2024**

- 13<sup>th</sup> Top 100 T-Schools (Factual Ranking) Employability Index
- 7<sup>th</sup> Top Private T-Schools (Factual Ranking)
- 7<sup>th</sup> in North Zone- Top 10 Zone Wise Institutes
- 90<sup>th</sup> in Top 100 T-Schools (Perceptual Ranking) Employability Index
- 16<sup>th</sup> in Regional Top 50 Ranking (North - Perceptual Ranking)

## **13 Outlook 2024**

- 138<sup>th</sup> among top 160 private institutes in India

## **14 THE WEEK-Hansa Research Survey 2024**

- 64<sup>th</sup> Rank in Govt and Private All Over India
- 38<sup>th</sup> Rank in Private Colleges In all over India
- 8<sup>th</sup> in North Zone Govt and Private Colleges in all over India

**15 Times of India Engineering Survey 2024**

- 141<sup>st</sup> in Top 175 Engineering Institute Rankings 2024

**16 NIRF 2024 (Engineering Category)**

- CEC-CGC Positioned in the band of 101-150 in the Engineering Category

**17 NIRF 2024 (Overall Category)**

- CEC-CGC Positioned in the band of 151-200 in the Engineering Category

## Chandigarh Engineering College–CGC Soars to Eminence in Outlook I-Care Rankings 2025

Chandigarh Engineering College-CGC has reaffirmed its position as a leader in engineering education by achieving remarkable distinctions in the Outlook I-Care Rankings 2025. The institution has secured 1st Rank among private colleges in Punjab (excluding university institutes), 2nd Rank among private institutes in Punjab including university institutes, and an impressive 50th position among the top 200 private institutes across India. These achievements reflect CGC's academic rigor, state-of-the-art infrastructure, committed faculty, and future-ready teaching approach. With its continued focus on innovation and holistic development, CEC-CGC stands as a guiding force in nurturing the next generation of engineering professionals.



**CEC-CGC's ranking in Outlook I-Care 2025**

## Chandigarh Engineering College–CGC Garner's Eminent Recognition in India Today Rankings 2025

Chandigarh Engineering College (CEC–CGC) has once again demonstrated its excellence in technical education, securing distinguished positions in the India Today Rankings 2025. The institution has achieved 1st Rank among Private (Self-Financed) Engineering Colleges in Punjab, 52nd Rank among Private Engineering Colleges across India, and 80th Rank among both Private and Government Engineering Institutions nationwide. These accolades highlight CEC-CGC's unwavering commitment to academic excellence, advanced infrastructure, dedicated faculty, and an education model grounded in innovation and industry relevance. With a strong emphasis on experiential learning and holistic student development, the college continues to shape future-ready engineering professionals and reinforce its legacy of educational leadership.



**CEC-CGC's ranking in India Today 2025**

## **CGC Landran Upheld the Sacred Akhand Path Tradition and Unveiled its Silver Jubilee Commemorative Logo**

CGC Landran Campus observed a spiritually enriching Akhand Path from 2nd to 4th July 2025, invoking the divine blessings of the Almighty for peace, prosperity, and for the beginning of the next academic session of the institution. The campus was imbued with devotional fervor as the CGC Management, faculty, staff, and students participated with heartfelt reverence. The soulful Kirtan fostered an atmosphere of serenity and spiritual harmony, inspiring collective gratitude and unity. Following the Bhog of the Path, Langar was graciously served to all attendees, symbolizing the values of equality, humility, and community service.

On 4th July, the occasion attained special significance with the unveiling of the CGC Silver Jubilee Commemoration Logo, marking a monumental milestone in the institution's distinguished journey of academic excellence. The ceremony was graced by S. Satnam Singh Sandhu (Chairman, CGC & MP Rajya Sabha) along with his family; S. Rashpal Singh Dhaliwal (President, CGC) and his family; CGC Trustees, and senior officials, who collectively led the logo launch and cake-cutting ceremony. The event not only strengthened the spiritual and cultural ethos of the campus but also celebrated CGC's enduring legacy of holistic development, innovation, and educational leadership.



**Glimpse of Akhand Path held at CGC Campus**



**Glimpse of CGC's 25 Years Logo Unveiling Ceremony by CGC Management**



**Glimpse of CGC's 25 Years Logo Unveiling & Cake Cutting Ceremony**



**Group Photograph of CGC Management**

## **CEC-CGC Landran's Silver Jubilee Prarambh Orientation Celebrated New Academic Beginnings**

On day 1, i.e. 21<sup>st</sup> July 2025, the atmosphere at CGC Landran was electrified with enthusiasm and anticipation, as the institution proudly hosted its landmark 25th orientation programme, marking the commencement of a new academic year. The day 1 orientation programme was scheduled for the new students of B.Tech CSE and ME. This significant milestone brought together a vibrant assembly of eager freshmen and their supportive parents, all gathering to embark on their transformative educational journey at this esteemed institution. The distinguished CGC Landran leadership team graced the occasion, including S. Rashpal Singh Dhaliwal, President CGC; Dr. Rajdeep Singh, Campus Director; Dr. Jagtar Singh Khattrra, Director Academics; Dr. Neha Sharma, Dean Research; Dr. Gagandeep Bhullar, DSW; Dr. Vivek Sharma, Registrar; and Dr. Harpal Singh, Head of Applied Science Department. Dr. Inderjot Kaur, Associate Professor, warmly welcomed the distinguished dignitaries, parents, and new students while providing a comprehensive overview of the orientation programme, setting the stage for what promised to be an inspiring introduction to academic life at CEC-CGC Landran.



**Dr. Inderjot Kaur giving a concise overview about the orientation programme on Day 1**



**Lamp Lighting Ceremony during day 1 of Orientation Programme 2025**

The ceremonial welcome was led by S. Rashpal Singh Dhaliwal, President CGC, who addressed the gathered assembly with warmth and conviction. In his opening remarks, he highlighted the institution's steadfast commitment to academic excellence and comprehensive student development, urging the newcomers to seize every opportunity that awaited them in their collegiate journey.



**S. Rashpal Singh Dhaliwal, President CGC addressing the gathering**

Dr. Rajdeep Singh, in his capacity as Campus Director, delivered an inspiring address that resonated deeply with the audience. His words carried both wisdom and encouragement, setting the tone for what promises to be a transformative educational experience.



**Dr. Rajdeep Singh, Campus Director formally welcoming the new batch**

The rich heritage of CGC Landran's success stories, groundbreaking achievements, and transformative student experiences that have shaped CGC Landran into the distinguished institution was showcased to the freshmen through the video presentation.



**Freshmen watching college video**

The orientation program *Prarambh* was designed to equip students with essential knowledge about campus infrastructure, academic programs, student support services, institutional policies, and the robust Training & Placement framework that has become a hallmark of the institution's success.



**Ms. Gurpreet Kaur delivering the college presentation**



**AGM, CRC detailing about Training & Placements**

The DSW, Dr. Gagandeep Bhullar disseminated the information about various clubs of the college and the grievance cell.



**Dr. Gagandeep Bhullar, DSW addressing the gathering**

The day's proceedings culminated with Dr. Harpal Singh, Head of the Applied Sciences Department, delivering a heartfelt vote of thanks. His closing remarks perfectly encapsulated the spirit of the occasion, extending best wishes to the new batch as they prepared to embark on their academic adventure.



**Dr. Harpal Singh, Head Applied Sciences Department delivering vote of thanks on day 1**



**Group Photograph of Day 1 Orientation Programme- Prarambh**

**On day 2, i.e. 22<sup>nd</sup> July 2025**, the orientation programme was scheduled for the new students of B.Tech ECE, IT, AI-ML, CS, DS, IoT, RAI & AI-DS. The distinguished CGC Landran leadership team graced the occasion, including Dr. Rajdeep Singh, Campus Director; Dr. Jagtar Singh Khattri, Director Academics; Dr. Neha Sharma, Dean Research; Dr. Gagandeep Bhullar, DSW; Dr. Vivek Sharma, Registrar; and Dr. Harpal Singh, Head of Applied Science Department. Dr. Inderjot Kaur, Associate Professor offered an enthusiastic welcome to the respected guests, parents, and newly admitted students, sharing a detailed orientation roadmap that promised to launch their transformative academic adventure at CEC-CGC Landran.



**Dr. Inderjot Kaur giving a concise overview about the orientation programme on Day 2**



**Lamp Lighting Ceremony during day 2 of Orientation Programme 2025**

Dr. Rajdeep Singh, Campus Director CGC, extended a cordial welcome to the new students and their parents on Day of the orientation programme, reaffirming the institution's commitment to achieving remarkable academic excellence through dedicated and progressive educational initiatives.



**Dr. Rajdeep Singh, Campus Director CGC, extending a formal welcome to the new students**

The meticulously structured orientation programme served as a comprehensive introduction to campus life, addressing students' queries while providing detailed insights into institutional resources, academic programmes, and student support services. This strategic initiative facilitated seamless integration of new students into the collegiate environment, ensuring they were well-equipped with essential information to navigate their academic journey successfully.



**Ms. Gurpreet Kaur delivering the college presentation**

Ms. Chhavi Minhas, AGM, CRC informed the new students about TPP and how CGC Landran systematically prepare the students to harmonize with dynamic professional requirements and modern market-place expectations.



**Ms. Chhavi Minhas, AGM, CRC addressing the new students**

Dr. Gagandeep Bhullar, in her address talked about DSW's initiatives that inspire students to explore their artistic passions, refine various competencies, and make meaningful contributions to the college community.



**Dr. Gagandeep Bhullar addressing the new students on day 2**

The day 2 orientation programme concluded with a formal vote of thanks by Dr. Harpal Singh, Head, Applied Sciences Department marking the successful completion of another milestone in welcoming CGC's newest batch of aspiring engineers and technologists.



**Dr. Harpal Singh extending vote of thanks on Day 2 of Prarambh**



**Group Photograph of Day 2 Orientation Programme- Prarambh**

## **CSE & IT Department jointly organized 5<sup>th</sup> International Conference on Computational Methods in Science and Technology, (ICCMST 2025)**

Department of CSE and IT, Chandigarh Engineering College-CGC, Landan, Mohali jointly organized 5<sup>th</sup> International Conference on Computational Methods in Science & Technology (ICCMST 2025) on 7<sup>th</sup> & 8<sup>th</sup> Aug, 2025. The Inaugural function began at 10 am on 7<sup>th</sup> Aug, 2025. The Hon'ble Chief Guest, of the function was Prof. (Dr.) Padmakumar Nair, Vice Chancellor, Thapar Institute of Engineering & Technology, Patiala. The Hon'ble Guest of Honour was Dr. Amit Kumar Mishra, Senior Director (IT)/Scientist-F at the National Informatics Centre, Ministry of Electronics and Information Technology, Government of India. For the inaugural function, there were two International Speakers: Dr. Davids, a Turing Global Research Fellow, currently based at Imperial College, London and Dr. Kalaivani Chellappan, Associate Professor at Universiti Kebangsaan Malaysia who also joined and shared their research and expertise with all the research scholars, faculty members, and students.

At the very beginning, Prof. (Dr.) Rajdeep Singh welcomed all the dignitaries of the inaugural session and gave an overview about the conference. He also praised all the members for organizing the conference. Further, the Guest of Honour of the function, Dr. Amit Kumar Mishra, Senior Director (IT)/Scientist-F at the National Informatics Centre addressed all the participants related to artificial intelligence and its scope. Dr. Mishra emphasized that while there are common concerns regarding AI replacing human roles, it is important to understand that AI is not here to replace humans. Rather, he underlined the pressing need for humans to adapt to and integrate AI technologies in order to remain relevant and thrive in an increasingly digital and automated world.

The event was further honored by the presence of the Chief Guest, Prof. (Dr.) Padmakumar Nair, Vice Chancellor of Thapar University, Patiala. In his compelling address, Prof. Nair focused on several pivotal themes that are essential for personal and professional growth in the contemporary era. He began by emphasizing the importance of empathy and excellence as foundational qualities for individuals and institutions alike. Prof. Nair noted how the notion of computing has significantly evolved with the advent of Artificial Intelligence (AI), transforming how we approach technology and its applications.

Subsequent to the inaugural ceremony, four parallel technical sessions commenced, wherein research scholars presented their papers before a panel of experts. The sessions covered a diverse range of topics, including Machine Learning, Cloud Computing, and recent advancements and challenges in Artificial Intelligence, Machine Learning, Internet of Things, Cybersecurity, and Blockchain Technologies. The authors presented their research findings, which were critically evaluated by the respective session chairs, who also provided insightful comments and recommendations.



**Inaugural Ceremony of ICCMST 2025**



**Prof. (Dr.) Padmakumar Nair sharing his views with the participants**



**Release of Conference Proceedings**

**The second day** of the 5th International Conference on Computational Methods in Science & Technology (ICCMST 2025) hosted multiple technical tracks with paper presentations from eminent researchers, faculty, and students. The conference aimed to provide a platform for exchanging innovative ideas and research findings in emerging domains such as Machine Learning, Communication Networks, Big Data Analytics, and ICT for Sustainable Environment. The technical sessions provided valuable exposure to innovative research, fostering collaborations and inspiring further advancements in science and technology. The valedictory session began with a welcome address and a conference report presented by the Master of Ceremony (MoC), followed by an address by the Chief Guest, Mr. Saurabh Aggarwal, Group Project Manager, Infosys, Chandigarh. The Guest of Honor, Mr. Parminder Singh, Founder of ZippiAI, Chandigarh, also addressed the gathering. Certificates were awarded to the best paper presenters and contributing authors, followed by the felicitation of the esteemed guests. The event concluded with a vote of thanks proposed by Prof. (Dr.) Amanpreet Kaur, Head, Department of Information Technology, CEC-CGC. Apart from this the Posters were presented by the students during the ICCMST 2025 conference and showcased the creativity and innovative thinking of the participants. The winners were recognized for their exceptional ideas and presentation skills.



**Glimpse of paper presentations by the Authors**

## **AICTE ATAL sponsored FDP on “Recent Trends and Research on Cloud Computing and Services”**

The CSE department of CEC-CGC Landran organized an FDP on Recent Trends and Research on Cloud Computing and Services from 8<sup>th</sup> sept to 13<sup>th</sup> sept 2025. The objective of the FDP was to provide a platform to the researchers and practitioners from both academia as well as industry to meet and share cutting-edge development and recent innovations in Cloud Computing domain. As part of the AICTE-ATAL Sponsored Faculty Development Program (FDP), the inaugural session was delivered by Dr. Mala Kalra, Assistant Professor, National Institute of Technical Teachers Training and Research (NITTTR). Dr. Kalra introduced the participants to the fundamentals of Cloud Computing, emphasizing its growing significance across academia and industry. She highlighted how cloud technologies are transforming the teaching–learning ecosystem by fostering innovation, resource optimization, and efficiency. The session also explored the benefits, best practices, and research avenues in cloud adoption, offering participants a comprehensive outlook on its potential for future development. Faculty members gained practical insights into cloud-enabled tools and services that can be effectively applied in both classroom and professional contexts. Dr. Satnam Kaur, Assistant Professor in the Department of Computer Science and Engineering at Punjab Engineering College, Chandigarh, discussed the integration of IoT sensors, Wireless Sensor Networks (WSNs), and Artificial Intelligence for developing smart city solutions. The session highlighted how cloud platforms serve as a backbone for managing and analyzing largescale IoT data, thereby enabling AI-driven decision-making. Ms. Akanksha Rai Sharma, Technical Program Manager for AWS Academy in India and South Asia, shared valuable insights into the wide range of learning opportunities offered by AWS Academy. Mr. Aman Gupta, Senior Cloud Engineer at AWS introduced participants to the fundamentals of cloud computing and provided an in-depth overview of AWS Identity and Access Management (IAM). He explained how IAM enables secure and controlled access to AWS resources through policies, roles, and user management, ensuring compliance and data protection in cloud environments. Dr. Laxmi Narayan Thakural highlighted the use of cloud computing for hydrological modelling, data storage, and analysis, demonstrating how cloud platforms can enhance efficiency and scalability in managing large hydrological datasets.

Another insightful day at the AICTE-ATAL Faculty Development Program (FDP) was marked by an industrial visit to C-DAC (Centre for Development of Advanced Computing), organized by the Department of Computer Science. The session focused on deepening participants’ understanding of cutting-edge technologies shaping the future, particularly in the realm of cloud computing. Dr. Balwinder, an expert from C-DAC, highlighted the organization’s research focus, including the design and development of open-source cloud middleware, virtualization and management tools, and end-to-end security solutions. He also shared valuable insights on the real-world applications of high-performance computing, AI, cybersecurity, and indigenous technology innovations, providing participants with practical perspectives on leveraging these technologies in academic and industrial contexts. Mr. Ajay Godara provided valuable insights into Robotics, Internet of Things (IoT), AI, and Drone Technology, with a particular focus on Mobile Robotics and integrating regulatory

considerations into aerial technology. Mr. Mandeep Mehan Engineer at LTIMindtree Technology (A Larsen & Toubro Company), Noida offered a technical deep dive into the integration of Informatica Intelligent Data Management Cloud (IDMC) with AWS services—Elastic Load Balancer (ELB), CloudWatch, and CloudTrail—focusing on how these cloud-native tools can support resilient and observable data integration solutions.



**Dr. Satnam Kaur delivering the session**



**Ms. Akanksha Rai Sharma sharing her views with the participants**



**Dr. Laxmi Narayan Thakural sharing her views with the participants**



**Visit to C-DAC Mohali**



**Group Photograph during Valedictory Session of FDP**

## **International Conference on “Innovations in Communication, Computing & Sciences (ICCS-2025)”**

The Department of Electronics and Communication Engineering, Chandigarh Engineering College–CGC Landran, Mohali, successfully organized the 6th AICTE Sponsored International Conference on “Innovations in Communication, Computing and Sciences (ICCS-2025)” on 25th–26th September 2025 under the theme “Smart Systems and Beyond: Redefining Computing and Robotics through AI.” The conference received an overwhelming response with over 150 research papers from renowned institutions across India and abroad, including the University of San Francisco, Birla Institute of Technology Dubai, NIT Delhi, Thapar University, and AMITY University Noida, out of which 60 papers were selected after a rigorous peer-review process. In collaboration with Taylor & Francis Group and CRC Press (SCOPUS Indexed), the Conference featured distinguished dignitaries — Chief Guest Sh. Prabhjot Singh (IAS), Director General, Directorate of Technical Education, Haryana; Presiding Guest Dr. Manish Kumar Hooda, Director (Technology), India Semiconductor Mission (MeitY); Guest of Honour Dr. Rupinder Singh, Professor, NITTTR Chandigarh. The conference proved to be a vibrant platform for knowledge exchange, fostering collaboration among academia, industry, and researchers.



**Lamp Lighting Ceremony during ICCS 2025**



**Official Release of the ICCS 2025 Conference Proceedings**

## **Faculty Development Program on “Vistas of Innovation: Multidisciplinary Approach in Science and Technology”**

The Department of Applied Sciences & Mechanical Engineering Department of CEC-CGC, Landran organized 5 days FDP on “Vistas of Innovation: Multidisciplinary Approach in Science and Technology” from 30th June 2025 to 4th July 2025. The event began with a keynote by Mr. Joseph Jude, CTO of Net Solutions, who explored technological advancements and the impact of ChatGPT. Dr. Balwinder Singh from C-DAC Mohali followed on Day 2, presenting on agricultural innovation, including E-Nose technology with AI and IoT. Day 3 featured Dr. Neha Sharma, Dean Research at CEC-CGC, Landran who discussed securing research grants, while Dr. Shashi Bala, Assistant Professor at CEC-CGC Landran, offered insights on writing effective research papers. On Day 4, Dr. K.G. Sharma of ECE Department, Chandigarh College of Engineering and Technology, Sector 26, Chandigarh, explained IoMT and its healthcare applications. Dr. Sanjeev Kumar, Scientist E at C-DAC Mohali, closed the event on Day 5 with a lecture on malware detection and cyber threat intelligence. Each session was thought-provoking, engaging, and addressed cutting-edge technologies with practical implications for diverse fields.



**Mr. Joseph Jude being felicitated during the FDP**



**Day 2 of the FDP**



**Day 3 of the FDP**



**Day 4 of the FDP**



**Day 5 of the FDP**

## **Expert Talk on “Green Hydrogen: Powering a Renewable and Sustainable Future”**

An Expert Talk on “Green Hydrogen: Powering a Renewable and Sustainable Future” was organized by the Department of Mechanical Engineering, CEC-CGC, Landran on July 15, 2025. The session was delivered by Mr. J.P. Kundra, Consultant Engineer, Cheema Boilers Limited. Mr. Kundra discussed the role of green hydrogen in achieving a sustainable and low-carbon energy future. He elaborated on hydrogen production technologies, industrial applications, and policy frameworks essential for its widespread adoption. Students gained valuable insights into the use of hydrogen in cleaner energy systems and its potential to revolutionize industrial processes. The session proved to be highly informative and inspiring for participants, enhancing their understanding of renewable energy innovations.



**Mr. J.P. Kundra delivering the Expert Talk**

## **Session on “Angel Investment/VC Funding Opportunity for Early Stage Entrepreneurs”**

A session on “Angel Investment/VC Funding Opportunity for Early Stage Entrepreneurs” was organized on July 29, 2025 by Mechanical Engineering Department. The session aimed to provide participants with a comprehensive understanding of the investment landscape and funding avenues available for early-stage startups. Mr. H.S Cheema, Chairman, Cheema Boilers Limited, Mohali highlighted key aspects such as investor expectations, legal and financial considerations, and strategies to enhance fundraising readiness.



**Mr. H.S. Cheema interacting with faculty members and students during the Session**

## **Expert Talk on “Employee Satisfaction to Employee Experience – Shift in HR Focus”**

The Department of Business Administration, CEC-CGC Landran organised an expert talk on “Employee Satisfaction to Employee Experience – Shift in HR Focus” on 27th August 2025. The session was led by Mr. Hitesh Kumar Gulati, a renowned HR thought leader. He highlighted the importance of moving from traditional employee satisfaction to a holistic employee experience. The talk covered key areas such as workplace culture, technology in HR, and employee well-being.



**Glimpse of the Expert talk**

## **Marketing Club organized Brand Battles**

The Department of Business Administration, CEC-CGC, successfully organized Brand Battles on 24<sup>th</sup> September 2025, an interactive event by the Marketing Club, where students showcased their creativity and strategic thinking. Ten teams competed in a debate-style competition representing rival brands, highlighting their strengths, unique strategies, and counter-arguments. The event encouraged analytical thinking, teamwork, and persuasive communication among participants.



**Winners of “Brand Battles” being felicitated by faculty members**

## Mathematics Expert Talk on Innovative Ways of Solving the Functions of Several Variables

Applied Sciences Department of CEC–CGC, Landran organized an expert talk entitled “Innovative Ways of Solving the Functions of Several Variables” on 29<sup>th</sup> September, 2025. Dr. Satish Kumar Sharma from Thapar Institute of Engineering & Technology, Patiala enlightened the students with his rich experience in the domain of calculus. Dr. Satish Kumar Sharma is a Professor and a former Head of Department of Mathematics at TIET, Patiala. The session was organized on the innovative topics of Functions of several variables, Limits, continuity and partial derivatives understanding and their real-world applications. The speaker was an expert in this area and shared his own experience of work in the same area. The objective of organizing this talk was successfully achieved: to make students cognizant of the significance of multivariable functions and partial differentiation in real-world contexts. The session was highly engaging and informative. The expert speaker detailed real-world problems related to these topics, illustrating applications such as their use in R&D settings within multinational companies, in soft computing and more.



**Glimpse of Mathematics Expert Talk**

## **CSE Department organized Technical Event “iOS ignite”**

The SWIFT Club of the Department of Computer Science, organized an engaging and interactive event titled "iOS Ignite" on 1st August 2025. This event was an exciting journey for students into the world of Apple technologies and Swift programming — designed to spark creativity, boost technical skills, and ignite interest in modern app development. The event was structured into three dynamic rounds: “Byte the 🍏”, a fast-paced quiz testing knowledge of Apple, Swift, and the club; “iImagine”, a creative challenge where students used AI tools to generate visuals; and “Design Sprint”, where teams designed and built websites either from scratch or using AI-based platforms. Each round challenged students to think quickly, work collaboratively, and explore their creative and technical boundaries. What made the event special wasn’t just the competition, but the energy, enthusiasm, and curiosity it generated among participants. Students didn't just engage in tasks — they experimented, brainstormed, and explored real-world tools that are shaping today’s tech industry. The event also served as a launchpad for future explorations — inspiring students to take up app-based final year projects, dive into Swift learning, or explore internships and careers in mobile development and UI/UX design.



**Students participating in iOS ignite Event**



**Prize Distribution to the winners**

## **Anti-Ragging Awareness Session during Student Induction Program 2025**

As part of the Student Induction Program (SIP-2025), the Applied Sciences Department conducted comprehensive awareness sessions on anti-ragging policies on July 22nd and 24th, 2025. These sessions were strategically designed to orient new students about maintaining a harassment-free campus environment from the beginning of their academic journey. The awareness program provided incoming students with essential knowledge about recognizing, preventing, and reporting ragging incidents. Students viewed an educational documentary that highlighted the serious nature of ragging and its impact on victims. Additionally, they received detailed guidance on completing mandatory anti-ragging documentation through the designated online portal.

The sessions emphasized the institution's zero-tolerance approach toward ragging, clearly outlining that any involvement in such activities could lead to serious disciplinary action, including termination of enrollment. Students were actively encouraged to report any instances of misconduct to the anti-ragging committee or senior administrative authorities, ensuring they understand the available support systems and reporting mechanisms within the college framework. This proactive initiative reinforced the institution's commitment to fostering a safe, respectful, and inclusive academic environment for all students.



**Session on Anti-Ragging during SIP 2025**



**Students watching Anti-ragging documentary**

## **Applied Sciences Department Implemented Interactive Learning Methodologies During Student Induction Programme 2025**

The Department of Applied Sciences at CEC-CGC Landran successfully integrated innovative pedagogical approaches during the Student Induction Programme, emphasizing active learning strategies to enhance student engagement and comprehension. The department orchestrated collaborative "Think-Pair-Share" sessions on 22<sup>nd</sup> & 24<sup>th</sup> July, 2025 for new B.Tech students of all branches, enabling new students to deliberate individually on already learnt academic concepts before engaging in peer discussions and subsequently sharing insights with the class. Additionally, structured "One Minute Reflection" exercises were implemented, providing students with dedicated intervals for introspective analysis. These evidence-based learning methodologies were strategically designed to cultivate critical thinking capabilities, foster collaborative learning environments, and promote metacognitive awareness among first-year students, thereby establishing a robust foundation for their academic trajectory and ensuring seamless transition into higher education practices.



**Think Pair Share Activity during SIP 2025**



**Active Learnings during SIP 2025**

## CGC Campus Tour for B.Tech. Newcomers during SIP-2025

The Department of Applied Sciences orchestrated an extensive campus orientation for its incoming batch of B.Tech. scholars on July 22nd and 24th, 2025, as an integral component of the Student Induction Programme 2025. This meticulously planned visit was designed to acquaint students with the institution's robust infrastructure, state-of-the-art academic amenities, and comprehensive support mechanisms at their disposal.

Under the guidance of their designated Class Counselors, students embarked on a systematic exploration of all Engineering departments within the institution. The visit itinerary also encompassed a visit to the Library, Labs, and RISE (Research) Department etc., strategically incorporated to cultivate scholarly curiosity and inspire innovative thinking and research methodologies among the newcomers.

This thoughtfully curated campus exploration served as an effective rapport-building exercise, facilitating meaningful interactions among peers while providing invaluable insights into the collegiate atmosphere.



## **Campus Visit to Drone Simulation Centre during SIP-2025**



Glimpse of Campus Visit during SIP-2025

## **Building Future Leaders: NCC Orientation for new students during SIP 2025**

The National Cadet Corps (NCC) wing of CGC Landran conducted comprehensive orientation sessions on July 22nd and 24th, 2025, as part of the Student Induction Program 2025, introducing B.Tech freshers to the opportunities and benefits of NCC enrollment. The orientation commenced with an informative presentation showcasing NCC's distinguished heritage and its pivotal role in developing disciplined, patriotic citizens. Senior NCC cadets from the institute, professionally dressed in their ceremonial uniforms, took center stage to share firsthand experiences and insights into the diverse range of NCC activities. The cadets elaborated on various NCC initiatives, including: Precision drill exercises that build coordination and teamwork; Community service projects that foster social responsibility; Adventure camps that develop resilience and outdoor skills; and Leadership development programs. Lt. (Dr.) Santosh Kumar, Associate NCC Officer at CGC Landran, led the sessions with expertise and enthusiasm. His presentation focused on engaging new students by providing comprehensive information about enrollment procedures and the multifaceted advantages of NCC participation. This interactive orientation served as an invaluable platform for new students to comprehend NCC's significant contribution to campus life and its potential for personal transformation. The session successfully demonstrated how NCC participation extends beyond academic pursuits, offering a holistic developmental experience that shapes future leaders and responsible citizens. The well-structured presentation and engaging delivery effectively conveyed the essence of NCC's mission while inspiring freshers to consider this enriching journey of personal and professional growth.



**Glimpse of NCC Sessions during SIP-2025**

## **Art of Living Sessions: Student Induction Programme 2025**

As an integral component of the Student Induction Programme (SIP-2025), the Applied Science Department facilitated comprehensive Art of Living sessions spanning six days from July 22nd to 25th and 28th to 29<sup>th</sup>, 2025, specifically designed for new B.Tech students across all engineering disciplines. Led by dedicated class counselors, these transformative sessions aimed to equip freshmen with essential life skills including stress management techniques, concentration enhancement methods, and holistic wellness practices through deep breathing exercises, mindfulness meditation, and reflective activities that foster inner tranquility. The sessions successfully introduced students to the Art of Living philosophy, emphasizing the cultivation of inner peace and stress-free living, ultimately providing newcomers with valuable tools and coping strategies essential for effectively managing the academic rigor and social dynamics of their upcoming college journey.



**Students attending Art of living Session during SIP-2025**



**Class Counselor taking Art of Living Session**

## Training and Placement Program Sessions Empowered Freshmen During Student Induction Program 2025

The Applied Science Department successfully organized comprehensive Training and Placement Program (TPP) sessions as part of the Student Induction Program 2025. These strategic sessions were conducted on July 22nd, 24th, and 25th, 2025, targeting all first-year B.Tech students across various branches. The sessions featured experienced Soft Skills Trainers from CGC Landran as keynote speakers, who provided students with valuable insights into the institution's career development framework. The trainers delivered a comprehensive introduction to CGC Landran's Training and Placement Department, emphasizing its pivotal role in facilitating successful campus placements for students. The speakers provided detailed guidance on crafting compelling resumes and CVs that effectively showcase academic achievements and relevant technical skills. Students learned best practices for presenting their qualifications in a professional and impactful manner. A significant focus was placed on developing essential soft skills, including: Effective communication techniques, Professional body language, Personal grooming and presentation standards, and Interview preparation strategies. These carefully structured sessions served as a comprehensive roadmap for incoming students, equipping them with the foundational knowledge and confidence needed to navigate future career opportunities.



Glimpse of TPP sessions during SIP-2025

## Artistic Allure Unleashed Creative Spirits during SIP 2025

Chandigarh Engineering College-CGC, Landran witnessed a spectacular showcase of hidden talents during 'Artistic Allure,' the vibrant engaging activities held on July 22nd, 24th, 25<sup>th</sup> and 28th, 2025, as part of the Student Induction Program for new B.Tech students across all disciplines. The department resonated with creativity and enthusiasm as first-year students seamlessly transformed into accomplished performers, delivering captivating one-act plays, self-choreographed dance performances, hilarious mimicry acts, storytelling and soul-stirring musical renditions that left both peers and faculty mesmerized. The electric atmosphere buzzed with applause and cheers as these budding engineers courageously stepped into the spotlight, sharing their artistic passions with newfound friends and mentors who were equally enchanted by the raw talent on display. This activity of creativity successfully fulfilled its core mission of nurturing the inner artist within each student, fostering deep interpersonal connections through shared artistic expression while ensuring that the induction experience became a memorable journey of self-discovery and camaraderie.



**Student performing Bhangra, Singing, Mimicry during Artistic Allure activity**

## Words Weave Magic: SIP 2025 celebrated Literary Excellence among First-Year Engineering Students

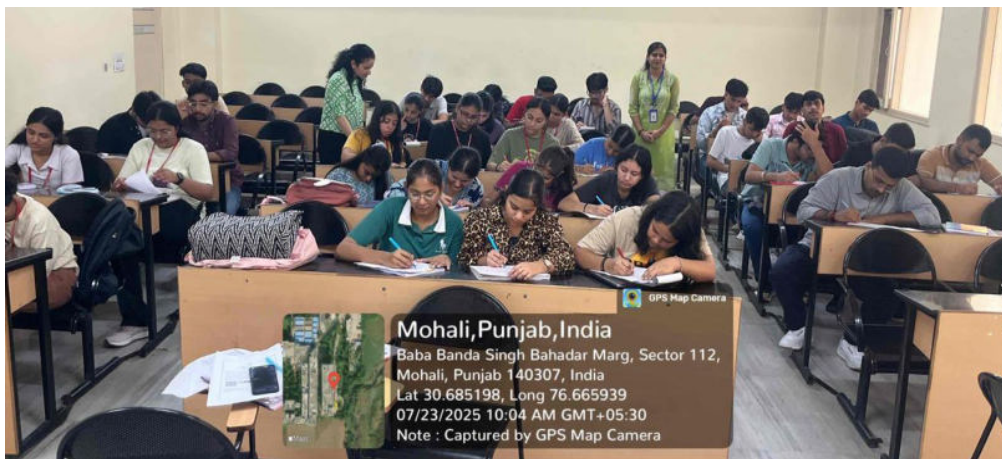
The Student Induction Program (SIP) 2025 transformed into a literary celebration on 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> July 2025 as first-year B.Tech students across all branches discovered the transformative power of words through engaging literary activities. The literary activities featured dynamic writing exercises including short case scenario creation and socially impactful slogan composition, which not only showcased the students' creative prowess but also fostered meaningful connections among peers. Class counselors and students alike were captivated by the exceptional quality of work produced, as budding engineers revealed their inner writers through thought-provoking scenarios and powerful slogans addressing contemporary social issues. These carefully curated literary activities successfully achieved their dual objective of encouraging creative brainstorming while building lasting friendships, proving that the fusion of technical education with literary expression creates a well-rounded foundation for academic and personal growth.



Literary Activities during SIP 2025



**Glimpse of Slogan Writing during SIP2025**



**New comers engaged in short case scenario during literary activities**

## **Visionary Voyagers: CEC-CGC Streamlines Academic Journey with Mentor Form Completion and Document Verification**

The Student Induction Program at Chandigarh Engineering College-CGC, Landran took a significant administrative stride on 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> July 2025, as first-year B.Tech students across all branches participated in the comprehensive 'Visionary Voyagers' initiative, which focused on mentor form completion and thorough document verification processes. Under the meticulous guidance of dedicated class counselors, new students successfully completed their mentorship enrollment forms while undergoing systematic verification of their academic credentials and essential documents, ensuring a smooth transition into their engineering journey. This well-orchestrated administrative exercise not only established crucial mentor-student relationships that will guide these academic voyagers throughout their collegiate experience but also ensured complete documentation compliance, setting a solid foundation for their four-year educational voyage. The initiative exemplified the institution's commitment to providing structured support systems while maintaining administrative excellence, as class counselors worked tirelessly to ensure every student was properly enrolled and documented for their transformative academic adventure ahead.



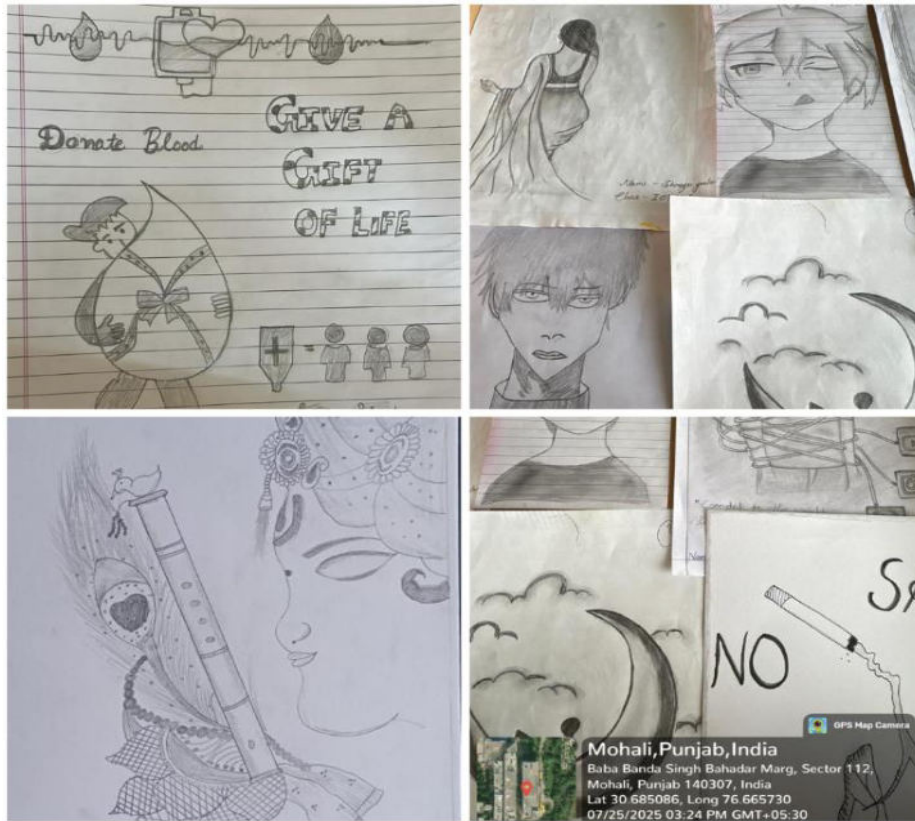
**New Students filling their Mentor Form**

## Applied Sciences Department conducted Creative Arts activities during SIP-2025

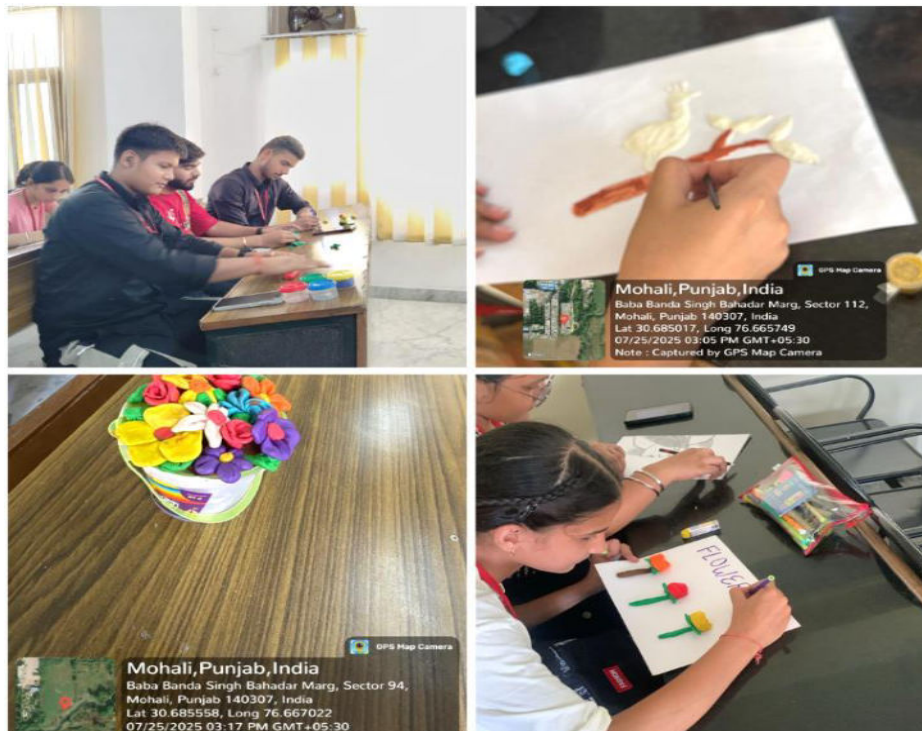
The Applied Sciences Department successfully organized comprehensive creative arts activities on 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> July 2025, featuring clay modeling, sketching, and painting activities as part of the Student Induction Programme for new B.Tech first-year students. The artistic endeavour provided new students with an exceptional platform to explore their creative potential and express themselves through various art forms while taking a refreshing break from traditional academic orientation activities. Students demonstrated remarkable talent and enthusiasm as they molded clay into imaginative sculptures, created detailed sketches, and produced vibrant paintings that reflected their individual artistic perspectives. These activities not only showcased the diverse creative abilities of the fresh batch but also fostered a collaborative learning environment where students could interact, share techniques, and appreciate each other's artistic expressions, ultimately contributing to their holistic development and smooth transition into the academic community at the institution.



Students engaged in Sketching Activity during SIP-2025



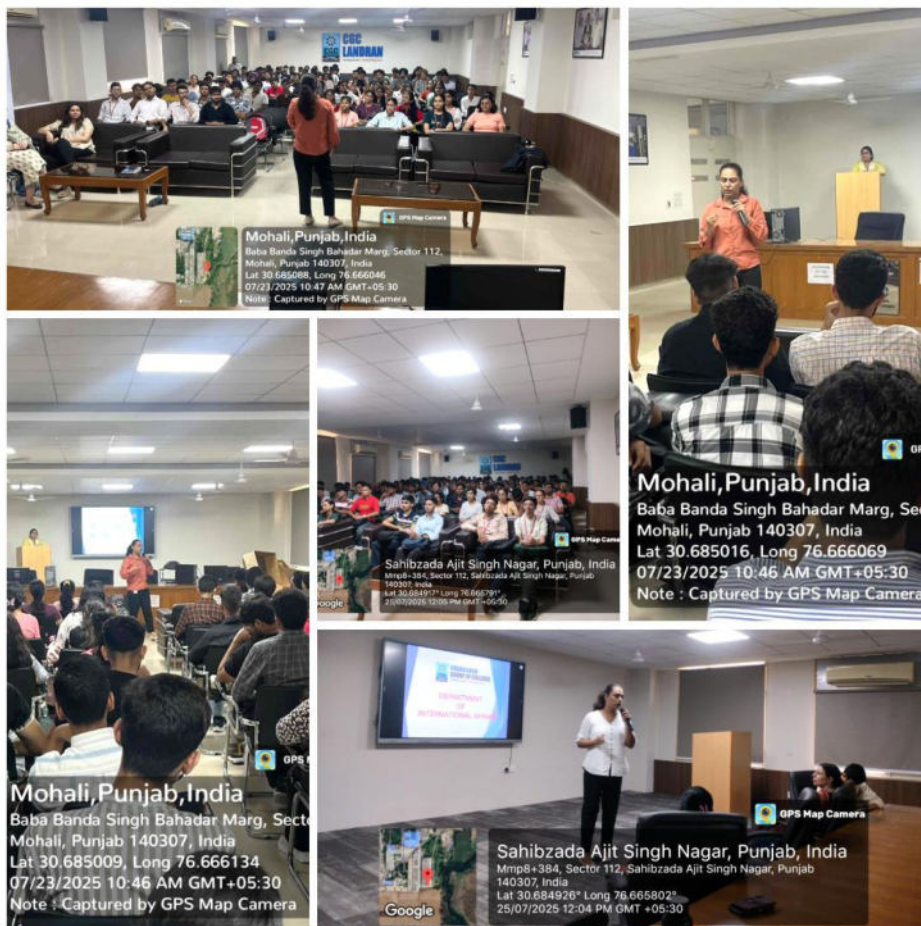
Glimpse of sketches made by students during SIP-2025



Students engaged in Clay Modelling & Painting during SIP 2025

## Opening Doors Worldwide: First-Year Students Connected with CGC's International Affairs Department during SIP-2025

The Applied Sciences Department organized engaging sessions on July 23rd and 25th, 2025, connecting B.Tech first-year students across all branches with CGC's International Affairs Department during the induction program. Ms. Gaganjyot Kaur from the International Affairs Department facilitated these interactive sessions, providing comprehensive insights into diverse global opportunities available throughout students' academic journey, including semester exchange programs, international internships, and study abroad initiatives. Students gained valuable understanding of application processes and cultural considerations for international experiences while exploring various departmental events such as international competitions, guest lectures, Model United Nations, debates, and the global village program. The sessions effectively showcased CGC's extensive network of partnerships with over 50 prestigious universities worldwide, enabling new students to discover pathways for global learning experiences that would significantly enhance both their academic excellence and personal development, while encouraging them to actively pursue international interests and broaden their educational horizons.



**Glimpse of International Affairs Sessions during SIP-2025**

## **Shaping Moral Identity: UHV Sessions built Ethical Foundation for New Students**

The Applied Sciences Department orchestrated comprehensive Universal Human Values (UHV) sessions on July 23rd and 25th, 2025, during the Student Induction Programme, where dedicated class counselors engaged all B.Tech first-year students in transformative discussions about fundamental ethical principles. These carefully structured sessions introduced newly admitted students to the core tenets of honesty, respect, and compassion that transcend cultural and religious boundaries, establishing a moral compass to guide their ethical decision-making throughout their academic and professional lives. Class counselors expertly explored how these universal principles would enhance students' relationships with peers, faculty, and the broader community, while emphasizing the profound benefits of embracing UHV in fostering personal justice and global harmony. Students gained valuable insights into navigating complex ethical challenges and were equipped with practical guidance for upholding these values in difficult situations. The sessions successfully achieved their primary objective of inspiring students to recognize the transformative power of Universal Human Values as essential tools for personal development, relationship building, and contributing meaningfully to a more ethical and positive future society.



**Glimpse of Universal Human Values Session-SIP 2025**

## Yoga Sessions ignited wellness enthusiasm among Freshmen during SIP 2025

The Applied Science Department successfully organized comprehensive yoga sessions as part of the Student Induction Program 2025. These wellness-focused sessions were conducted on July 23rd and 25th, 2025, engaging all first-year B.Tech students across various branches in the transformative practice of yoga. Dr. Sham Singh from the Applied Sciences Department served as the primary instructor, conducting both sessions with expertise and enthusiasm. His comprehensive approach inspired students while educating them about the multifaceted benefits of yoga practice. The sessions transcended traditional physical postures (*asanas*), offering students a comprehensive understanding of yoga as an ancient practice. The sessions equipped students with practical tools to: Navigate academic challenges with greater resilience; adapt effectively to social and environmental changes; maintain calm and presence in demanding situations; and manage daily life pressures with increased ease.

These yoga sessions provided new students with invaluable resources for their academic journey and personal development. The yoga sessions during SIP 2025 successfully sparked genuine enthusiasm for wellness practices among new students. Through expert instruction and practical application, freshmen gained access to time-tested techniques that will serve them throughout their academic careers and beyond, fostering both physical health and mental resilience in their transition to college life.



Yoga session during SIP 2025



Dr. Sham Singh highlighting the importance of Yoga

## Applied Sciences Department organized exciting Trip to Local City for Freshers During Student Induction Programme 2025

The Applied Sciences Department created memorable experiences for new B.Tech first-year students by organizing delightful excursions to VR Punjab and CP-67 Mall on July 23rd, 25th, and 28th, 2025, as part of the Student Induction Programme. The carefully planned outings provided freshers with an perfect opportunity to step away from academic orientation activities and immerse themselves in the city's vibrant shopping and entertainment culture while forging meaningful connections with their new classmates. Students explored the bustling mall corridors with infectious enthusiasm, some gravitating toward trendy clothing outlets while others were drawn to the diverse culinary offerings at the food courts. The excursions proved to be more than just recreational activities, serving as catalysts for building lasting friendships and creating a sense of camaraderie among the incoming batch, setting a positive tone for their upcoming journey at CGC and helping them transition smoothly into their new academic environment.



**Glimpse of Visit to VR Punjab & CP-67 Mall during SIP-2025**



**Group photograph of students during the Visit to Local City**

## **Industrial Visit to Godrej & Boyce Co. Ltd., Mohali**

The Mechnorobs Club of Department of Mechanical Engineering, Chandigarh Engineering College-CGC Landran, organized an Industrial Visit to Godrej & Boyce Co. Ltd., Mohali on 13<sup>th</sup> August 2025. The visit offered participants valuable exposure to advanced manufacturing practices, precision engineering processes, and quality control systems. Students explored various production lines, assembly units, and product testing areas, gaining first-hand knowledge of industrial workflows and safety protocols.



**Group photo outside Godrej and Boyce**

## **Applied Sciences Department hosted Vibrant Rangoli Competition during Student Induction Programme 2025**

The Applied Sciences Department successfully organized a colourful Rangoli Competition on July 24<sup>th</sup> and 25<sup>th</sup>, 2025, as part of the Student Induction Programme for newly admitted B.Tech first-year students. The competition witnessed enthusiastic participation from new students who showcased their artistic talents by creating impressive and intricate rangoli designs. The competition served as an excellent platform for new students to express their creativity while fostering cultural appreciation and team collaboration during their initial days at the institution. The vibrant displays of traditional art not only added aesthetic beauty to the campus but also helped create a welcoming atmosphere for the fresh batch of engineering students as they embarked on their academic journey.



**New students engaged in Rangoli Making during SIP-2025**



Rangoli designs made by new students during SIP-2025

## **Applied Sciences Department Ignited Fresh Academic Minds Through Transformative Motivational Sessions**

The Applied Sciences Department orchestrated an invigorating motivational session on July 24th and 28th, 2025, designed to illuminate the academic journey ahead for the newly inducted B.Tech first-year batch representing all engineering disciplines. This transformative initiative, seamlessly integrated into the comprehensive Students Induction Program 2025, featured the compelling and uplifting narrative of Muniba Mazari, whose extraordinary resilience and unwavering determination served as a beacon of inspiration. The carefully curated session aimed to cultivate a mindset of perseverance and excellence among the emerging engineers, fostering an environment where academic aspirations converge with personal growth, ultimately preparing these budding scholars to navigate their educational odyssey with renewed vigor and unshakeable confidence.



**Students watching the video during SIP2025**

## Fresh Batch receives Academic Roadmap: CGC Director Academics Orients 2025 Students on Institutional Framework

During the Student Induction Program 2025, Dr. Jagtar Singh Khattrra, Director Academics at CGC Landran, conducted comprehensive orientation sessions on July 24th and 28th for new students of Batch 2025. The interactive sessions provided new students with essential insights into the institute's academic framework, covering critical policies related to attendance requirements, struck-off procedures, leave applications, assignment protocols, examination systems, and grading standards. Dr. Khattrra emphasized how thorough understanding of these academic policies serves as the foundation for students' successful educational journey at CGC. Beyond policy orientation, he showcased the diverse opportunities available to students, including participation in international conferences, seminars, interdisciplinary research projects, and specialized training programs.



**Glimpse of Session on Academic Policies- SIP 2025**

## **Student Welfare Pathway: DSW Unveils Campus Club Opportunities to Foster Holistic Development Among Freshers**

The Department of Students Welfare orchestrated an enlightening orientation session on July 24th and 28th, 2025 for B.Tech first-year students as an integral component of the Student Induction Program, expertly conducted by DSW Faculty Coordinator Ms. Namrata Chopra. During this comprehensive briefing, students were acquainted with the diverse array of clubs operating under the DSW umbrella, receiving detailed insights into the multifaceted events and activities the DSW clubs facilitate throughout the academic year. Ms. Chopra ardently advocated for active participation in at least one campus club, articulating the transformative benefits of such involvement including enhanced personal growth, social integration, and professional skill development. She eloquently emphasized how regular club participation cultivates essential life competencies, nurtures interpersonal relationships, builds self-confidence, and broadens intellectual perspectives across various disciplines, while simultaneously fostering collaborative spirit and creating an engaging, enjoyable campus experience that complements academic pursuits with meaningful extracurricular enrichment.



**DSW Session during SIP 2025**

## **Freshmen gained valuable industry insights from CEC-CGC Alumni during SIP 2025**

As part of the Student Induction Program (SIP 2025), the Applied Sciences Department organized impactful alumni interaction sessions on July 24th and 28th for all B.Tech first-year sections. The sessions featured distinguished alumni including Mr. Gautam Juneja and Mr. Aditya Beri, both CSE 2024 graduates currently working as Software Engineers at Grazitti Interactive, Panchkula, and Mr. Manjot Singh, an ECE 2009 graduate who now serves as CEO of Tulsa Automation LLP. The alumni enthusiastically shared their transformative college experiences at CGC, recounting memorable moments that shaped their personal and professional growth. They highlighted how their time at CEC-CGC Landran significantly influenced their career trajectories, leading to successful placements and entrepreneurial ventures. Beyond sharing success stories, the speakers provided practical strategies for academic excellence and emphasized the importance of unwavering commitment and persistent effort toward achieving one's goals. The alumni expressed genuine admiration for CGC's expanding placement opportunities and diverse career prospects, attributing their professional achievements to the strong foundation and comprehensive support system they received during their time at the institution.



**Dr. Harpal Singh, HoD Applied Sciences felicitating the CGC Alumni's**



**Glimpse of Alumni Interaction Session during SIP 2025**



**Mr Manjot Singh's Interaction Session during SIP 2025**

## **B.Tech Freshers Transform Waste into Art during Innovative Sustainability Initiative**

First-year B.Tech students demonstrated remarkable creativity and environmental consciousness during the "Create Art for the Earth" recycling crafts activity, conducted as part of the Student Induction Programme 2025 on 24<sup>th</sup>, 28<sup>th</sup> & 29<sup>th</sup> July 2025. The sustainability-focused initiative saw enthusiastic participation from all new engineering students, who transformed discarded materials into innovative artistic creations and functional items. Under the guidance of faculty mentors, students crafted everything from decorative sculptures using plastic bottles and cardboard to functional organizers made from newspaper and tin cans, showcasing their ingenuity while learning valuable lessons about waste reduction and circular economy principles. The activity not only fostered creativity and teamwork among the new batch but also instilled a deep appreciation for sustainable practices, setting a strong foundation for environmentally responsible engineering practices throughout their academic journey and future careers.



**Glimpse of innovative artistic creations by Freshers during SIP-2025**

## **B.Tech Freshers bond through creative fun in Drawsaurus Gaming Session**

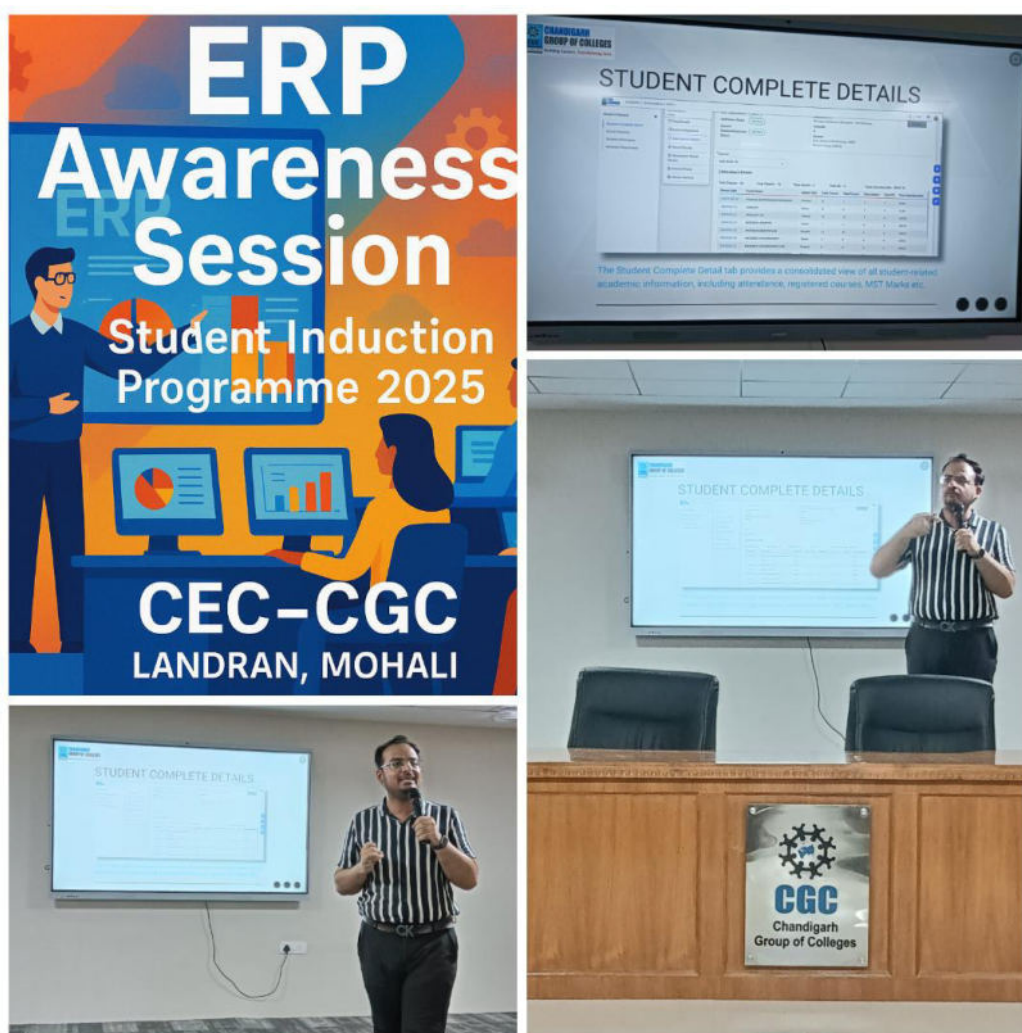
First-year B.Tech students experienced an exciting blend of creativity and competition during the Drawsaurus activity held on July 25, 2025, as part of the Student Induction Programme 2025. Class counselors organized this engaging multiplayer drawing game within their respective classrooms, where students took turns sketching various prompts while their classmates raced to guess the drawings in real-time. Beyond providing entertainment, the activity served as an effective icebreaker that helped shy students open up, encouraged creative expression, and built essential teamwork skills in a relaxed environment, proving that learning and relationship-building can be both educational and thoroughly enjoyable for the new engineering batch.



**Glimpse of Drawsaurus Game during SIP-2025**

## ERP familiarization session conducted for first-year students in SIP-2025

The first-year B.Tech students across all branches received an exciting introduction to the ERP system of CGC Landran during an ERP awareness session held on July 28th, 2025, as part of SIP-2025. Led by Dr. Kapil Mehta, the comprehensive session unveiled how this cutting-edge cloud-based college management system will transform their academic journey by seamlessly integrating attendance tracking, progress monitoring, and administrative processes into one powerful digital platform. Students discovered how this innovative technology will not only maximize their potential but also bring unprecedented time efficiency and convenience to their daily campus experience, ensuring that every aspect of their academic progress is digitally recorded and easily accessible, ultimately creating a smarter, more connected learning environment where technology empowers both students and faculty to achieve excellence.



**ERP Session during SIP 2025**

## **Counselling Sessions with Psychologist organized for First-Year Students during SIP-2025**

As part of the Student Induction Programme-2025, the Applied Sciences Department organized comprehensive counselling sessions on July 28th, 2025, targeting all B.Tech first-year students across various branches. The sessions were conducted by Mr. Radheyshyam Sharma, an experienced youth counsellor, educator, and former software developer, who brought a unique perspective to student guidance. These counselling initiatives were designed to enhance self-awareness among new students while equipping them with vital skills to successfully manage academic challenges and transitions. The program aimed to cultivate a positive approach toward both academic excellence and social integration within the college environment. Mr. Sharma provided students with practical strategies for stress management, effective coping mechanisms, and techniques to handle academic pressures, ensuring that freshmen were well-prepared to embark on their engineering journey with confidence and resilience.



**Mr. Radheyshyam Sharma taking the session during SIP 2025**

## **Industrial Visit to Guru Gobind Singh Super Thermal Power Plant, Ropar**

The Mechnorobs Club of the Department of Mechanical Engineering organized an Industrial Visit to Guru Gobind Singh Super Thermal Power Plant, Ropar on 27<sup>th</sup> August 2025. The visit offered students an excellent opportunity to gain practical exposure to large-scale power generation, turbine mechanisms, and energy distribution systems.



**A glimpse of the Industrial Visit to Guru Gobind Singh Super Thermal Power Plant**

## **Quality Excellence Awareness: B.Tech Freshers attended IQAC Session during SIP-2025**

On July 28th, 2025, B.Tech freshmen participated in a comprehensive IQAC (Internal Quality Assurance Cell) orientation session as part of the Student Induction Programme-2025, conducted by Dr. Harsimran Kaur, Dean IQAC. The session aimed to familiarize new students with IQAC's pivotal role as the institution's internal quality monitoring body, responsible for maintaining excellence across all academic and administrative domains including teaching methodologies, learning outcomes, research activities, infrastructure development, and student services. Dr. Harsimran Kaur provided detailed insights into IQAC's core mission of continuous institutional improvement and ensuring optimal academic experiences for students, while explaining the cell's organizational structure and composition. The freshmen gained valuable understanding of IQAC's multifaceted functions, encompassing the implementation of quality enhancement initiatives, coordination of faculty development programs, collection and analysis of student satisfaction feedback, and its crucial contribution to institutional affiliation and accreditation processes that uphold the college's academic standards and reputation.



**IQAC Session during SIP2025**



**Dr Harsimran taking IQAC Session**

## **B.Tech Freshers Explore Real-World Engineering Applications in Comprehensive Domain-to-Society and Industry Session**

First-year B.Tech students gained valuable insights into the practical applications of their chosen engineering disciplines during the "Application of Domain to Society and Industry" sessions conducted on July 28-29, 2025, as part of the Student Induction Programme 2025. Class counselors led interactive discussions within their respective sections, helping new students understand how their specialized fields directly contribute to solving contemporary societal challenges and driving industrial innovation. These sessions successfully inspired the new batch of students to envision their future roles as engineers who will shape society's technological landscape and address critical global challenges through innovative engineering solutions.



**Glimpse of Application of Domain to Society and Industry Session**

## **Freshers shared valuable insights in SIP-2025 Feedback Session**

The Student Induction Program 2025 concluded with a comprehensive feedback session held on July 28th and 29th, 2025, where class counselors facilitated an interactive evaluation process through digital form. This crucial initiative provided new students with a dedicated platform to candidly share their experiences and perspectives on the orientation and induction activities. The feedback collection served as an essential tool for institutional improvement, enabling the administration to assess program effectiveness, identify areas of excellence, and pinpoint opportunities for enhancement in future induction cycles. By actively engaging freshers in this evaluative process, the institution demonstrated its commitment to continuous improvement and student-centered program development.



**Class Counselor asking the students for the feedback**

## **CSE Department organized Technical Event “CodeRush”**

CodeRangers Club, the technical club under the CSE Department of Chandigarh Engineering College, organized a technical event “CodeRush” on September, 30th 2025. The event aimed to provide a competitive platform for students to enhance their coding, logic-building, and DSA problem-solving skills. It witnessed enthusiastic participation from approximately 230 students across multiple branches, reflecting the growing enthusiasm for coding culture within the campus.



**Prize distributions to the winners**

## Portal to Learning: Library Session Empowered Freshers with Essential Academic Resources

The Applied Science Department at Chandigarh Engineering College-CGC, Landran successfully conducted an enriching library orientation session on July 29th, 2025, as a pivotal component of the Student Induction Programme 2025, expertly facilitated by Ms. Renu Oberoi, Chief Librarian of Chandigarh Group of Colleges. During this comprehensive session, first-year students were introduced to the extensive library ecosystem, including state-of-the-art digital platforms featuring online databases, e-journals, and digital repositories that form the backbone of modern academic research. Ms. Oberoi meticulously guided students through essential research methodologies, proper citation formats, and the critical importance of academic integrity, while emphasizing how effective utilization of these information technology resources would significantly enhance their academic performance throughout their engineering journey. The session successfully achieved its objective of transforming students into confident library users and research enthusiasts, equipping them with invaluable skills in search techniques and digital literacy that will serve as their gateway to knowledge and foster a lifelong passion for learning and scholarly inquiry.



**Glimpse of Library Session during SIP 2025**

## **CGC Landran's Registrar Engages with New Students during Induction Program 2025**

Dr. Vivek Sharma, Registrar cum Controller of Examinations at Chandigarh Group of Colleges, delivered an enlightening and comprehensive session to first-year B.Tech students across all disciplines on July 29th, as an integral component of the meticulously planned Student Induction Program at Chandigarh Engineering College-CGC, Landran. Through his eloquent and empathetic discourse, Dr. Sharma adeptly addressed prevalent academic concerns while elucidating the intricate operational framework of the Registrar's Department. The distinguished academic administrator systematically unveiled an array of merit-based and need-based scholarship opportunities available to deserving students, while providing detailed insights into the nuanced registration and admission protocols governing university-level procedures. This strategic orientation session was thoughtfully designed to familiarize new students with the institutional ecosystem of both the college and IKGPT University, ensuring seamless academic transition while empowering students with comprehensive knowledge of available financial assistance programs to enhance their educational journey and overall collegiate experience.



**Registrar Session during SIP-2025**

## **Induction Completed, Dreams Activated: CEC-CGC's Student Induction Program 2025 Wrapped Up in Style!**

The curtains came down on Student Induction Program-2025 at CEC-CGC Landran, Mohali with a spectacular valedictory ceremony on July 29th, marking the triumphant end of an enriching orientation journey that transformed nervous newcomers into confident college-ready students. The grand finale buzzed with infectious energy as Dr. Harpal Singh, Head of Applied Sciences Department, congratulated the fresh faces and wished them success in their upcoming academic adventure, while class counselors distributed well-deserved prizes to event winners who showcased their talents throughout the induction period. This joyous celebration not only highlighted the institute's unwavering commitment to holistic student development but also set the perfect tone for what promises to be an exciting and fulfilling college experience for the newest members of the CEC-CGC family. The winners of different events were:

### **Clay Modeling**

**1<sup>st</sup> Prize** Arzoo CSE-A, Kulvir Kaur RAI-A1, Pushpinder Kaur ECE-B1

**2<sup>nd</sup> Prize** Aakash IOT-A1, Muskan AI-ML

### **Sketching/ Painting**

**1<sup>st</sup> Prize** Akanksha CSE-A1, Payal CSE-F1, Naman IOT-B1, Chaitanya ECE-A1

**2<sup>nd</sup> Prize** Bhavika Jain CSE-B2, Piyush Chibber CSE-F1, Areeba CSE-A1, Vansh Dua AI-ML A2

### **Poetry**

**1<sup>st</sup> Prize** Ananya CSE-A, Navjot CSE-E, Niharika DS-B1, Kavya IT-B1

**2<sup>nd</sup> Prize** Ishita CSE-D, Kawalpreet IOT-A2, Shubneet AI-DS-A2

### **Slogan Writing**

**1<sup>st</sup> Prize** Areeba CSE-A1, Vanshika CSE-I2, Navjot IOT-B1, Piyush Kumar Thakur IT-B2

**2<sup>nd</sup> Prize** Prince Sharma CSE-A2, Amit Sinha CSE-A1, Pushp CSE-F2, Gursehaj Kaur DS-A2, Nakul AI-ML

### **Sustainable Future (Create art for the earth, Create a recycling station)**

**1<sup>st</sup> Prize** Anshika CSE-B1, Payal Bharadwaj CSE-F1, Anmoldeep Singh AI-ML- A1

### **Rangoli**

**1<sup>st</sup> Prize** Deepanshi, Divanshu, Drishtyi Malhotra, Dhruvi, Gargi, Hanshika (CSE-C); Vanshika Yashika, Vibhuti, Vishnu, Utkarsh, Tanish (CSE-I); Prabhjot Kaur, Kiranjeet Kaur, Manjot Kaur (IT-B)

**2<sup>nd</sup> Prize** Aastha, Amodita, Aarzo, Advita, Akanksha, Ananya (CSE-A); Krishna, Krishant, Lakshay, Manthan Mishra; Vansh Dua, harshit Kanwal, Ajay Singh, Aditya Yadav, Rakshit Sharma (AI-ML)

### **Dancing**

**1<sup>st</sup> Prize** Divanshu CSE-C, Naman Kaushak RAI-A2, Anmoldeep Singh AI-ML-A1

**2<sup>nd</sup> Prize** Kashish Kumari CSE-D2, Kulveer Kaur RAI-A1



**Glimpse of the prize distribution during the closing ceremony of SIP-2025**

## CSE Department organized Technical Event “MindHack”

Phoenix Club, the technical club under the CSE Department organized a technical event “MindHack” on August 20, 2025. The event was designed to test students’ problem-solving, logical reasoning, and coding proficiency through two engaging rounds: Double Trouble – Quiz Contest and Break the Bug – Debugging Assessment. Top 3 teams secured first position, second position, third positions respectively and all won cash prizes of Rs 2000, Rs 1500, Rs 1000 respectively. All the participants were provided with participation certificates.



**Students participating in the event**



**Prize distribution to the winners**

## CSE Department organized Seminar on “DevDecoded”

ACM Chapter, the technical club under the CSE Department of Chandigarh Engineering College, organized a Seminar “DevDecoded: Building Real Software, Living Real Stories” on 22<sup>nd</sup> August, 2025. The session aimed to provide students with an in-depth understanding of modern databases, career insights, and the evolving role of AI in the tech industry. Distinguished speakers Ms. Loveleen Kaur, Senior Android Engineer, Probo and Mr. Pranav Kumar, Associate Staff Engineer, Nagarro shared their professional journeys, technical expertise, and industry experiences, making the session highly engaging and inspiring.



**A panel discussion with Loveleen Kaur and Pranav Kumar**



**Speakers interacting with Campus Director**

### **Industrial Visit to Rockpecker – Centre of Excellence**

The ECE Department of CEC-CGC organized an industrial visit to Rockpecker – Centre of Excellence (CoE), Morinda, Punjab on 21st August 2025 for students of the 3rd and 5th semesters. The visit, coordinated by Dr. Simar and Mr. Deepak, aimed to provide students with practical industry exposure and insights into modern engineering practices. During the visit, students observed advanced manufacturing processes, electronics integration in industrial systems, and quality control mechanisms, bridging the gap between theoretical knowledge and real-world applications.



**Industrial Visit - Rockpecker – Centre of Excellence (CoE), Morinda**

## **Workshop on Empowering Minds with AI on 20<sup>th</sup> September, 2024**

ECE department organized Workshop on “Empowering Minds with AI “on 20<sup>th</sup> September, 2024 under Unnat Bharat Abhiyan (UBA). The workshop aimed to spread awareness among students about Artificial Intelligence and its real-life uses. A skit on “ChatGPT and Artificial Intelligence – Empowering the Future.” UBA cell also organized a session in the Government high school of Saidpur village which included various informative and interactive activities for children like future discussion, introduction to AI, stress management, Quiz and many more.



**Unnat Bharat Abhiyan Workshop**

## **Industrial Visit to NIELIT Ropar**

The ECE Department of CEC-CGC organized an industrial visit cum workshop to NIELIT Ropar on 12th August 2025 for students of the 3rd and 5th semesters, coordinated by Dr. Varsha and Ms. Divya. As part of the visit, a 2-hour workshop on Quantum Computing was conducted by Dr. Sarwan Singh, who delivered an engaging session covering the fundamentals, applications, and industry relevance of quantum computing. Students gained insights into quantum circuits, simulators, and quantum machine learning applications, as well as exposure to emerging trends and future prospects in the field.



**Industrial Visit –NIELIT, Ropar**

## **Industrial Visit to Punjab Communications Limited (PUNCOM)**

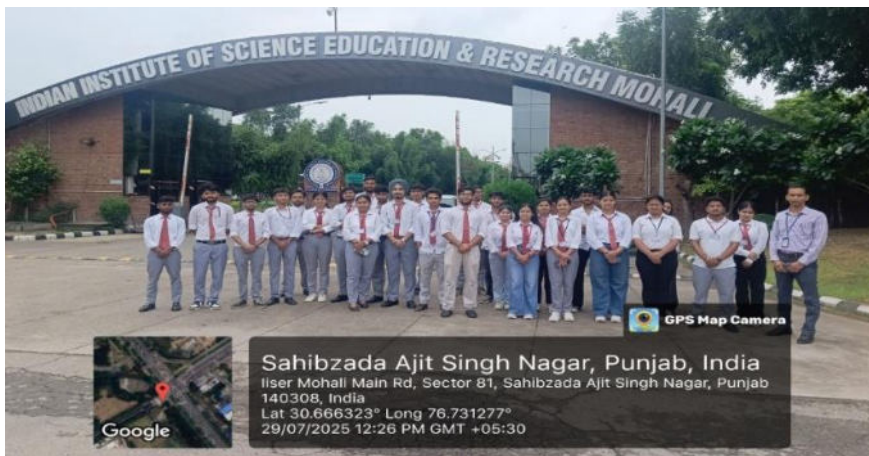
The Department of Electronics and Communication Engineering (ECE) at Chandigarh Engineering College-CGC, Landran organized an industrial visit to Punjab Communications Limited (PUNCOM), Mohali on 17th July 2025 for students of 3rd semester ECE-A, coordinated by Dr. Pradeep Gaur and Mr. Gurbinder. The visit aimed to provide students with practical exposure to industrial practices and bridge the gap between academic learning and corporate requirements. PUNCOM, a leading organization in the manufacturing and supply of advanced telecommunication and IT equipment, offered students insights into technologies such as Voice/Data Multiplexers, Optical/Transmission Equipment, Power Plants, and PLCC systems.



**Industrial Visit - Punjab Communications Limited (PUNCOM), Mohali**

## **Industrial Visit to IISER Mohali**

The ECE Department of CEC-CGC, Landran organized an industrial visit to IISER Mohali on 29th July 2025 for 5th semester B.Tech students. The visit aimed to provide insights into research initiatives, start-ups, and government-supported entrepreneurship programs, including schemes promoting women entrepreneurs. Students received hands-on exposure to advanced facilities such as the Laser Lab, Femtosecond Lab, Nano Scale Detection Lab, NMR Research Facility, Spectroscopy Lab, and Incubation Centre.



**Industrial Visit - IISER Mohali**

## **Expert talk on Precision Agriculture: Field Deployable IoT Wireless Communication Products for Small and Marginal Farmers**

The Institution of Electronics and Telecommunication Engineers – Student Forum (IETE-SF), under the Department of Electronics and Communication Engineering organized an expert talk on “Precision Agriculture: Field Deployable IoT Wireless Communication Products for Small and Marginal Farmers” on 12th September 2025. The session was conducted by Dr. Amit Mishra, Associate Professor, Department of ECE, Thapar Institute of Engineering and Technology (TIET), Patiala. The talk aimed to familiarize students with the technological advancements in agriculture, focusing on the efficient selection of sensors, modules, and IoT integration for improved productivity. Dr. Mishra elaborated on next-generation technologies and innovations that drive agricultural efficiency and sustainability.



**Expert talk on Precision Agriculture**

## **ET Department Organized EmergiTech 1.0**

The Emergians under the Department of Emerging Technologies at Chandigarh Engineering College-CGC organized its first flagship event, “EmergiTech 1.0,” on September 29th and 30th, 2025. The event featured three technical workshops on Cyber Security which covered basics and ethical hacking. The workshops aimed to provide students with practical exposure to emerging technologies and enhance their technical skills through hands-on learning.



**Glimpse of EmergiTech 1.0**

## **ET Department Organized the Bootcamp: “Future of UI 2K25” in collaboration with CDAC Mohali**

The Department of Emerging Technologies, CEC-CGC Landran, successfully organized a 5-days bootcamp on “Future of UI – The Design of Cutting-Edge Technologies” from 1st to 5th September 2025, blending offline and online learning to provide students with practical exposure to the future of intelligent interfaces. Conducted in collaboration with MeitY, CDAC Mohali, and Future Skills Prime, the bootcamp began with an offline inaugural and hands-on session on 1st September, followed by three days of online workshops from 2nd to 4th September (4–5 PM), and concluded with an online assessment and closing ceremony on 5th September (5–6 PM). Led by Mr. Pushpender Singh, the sessions covered modern UI/UX trends, AI-powered design tools, and interactive activities to help students build practical skills. Participants received co-stamped certificates from MeitY, CDAC, and Future Skills Prime.



**Students actively participating and learning throughout the Bootcamp**



**Emergians team with the faculty coordinator and HOD**

## **Workshop on “Exploring the Frontiers of Quantum Machine Learning: Use Cases and Practical Insights.”**

The Department of Information & Technology and the Institution’s Innovation Council (IIC) at CGC Landran organized a focused workshop titled "Exploring the Frontiers of Quantum Machine Learning: Use Cases and Practical Insights" on 23rd July 2025. The session was conducted by Dr. Tarun Kumar, Project Engineer at C-DAC Mohali. This workshop introduced students and faculty to the emerging domain of Quantum Machine Learning (QML). Dr. Tarun Kumar provided valuable insights into real-world use cases, bridging the gap between theoretical knowledge and practical application. The session also included live demonstrations and technical discussions that enhanced participants’ understanding of how QML is shaping modern technological solutions.



**Faculty and students attending the workshop**



**Appreciation to the Speaker by the department**

## Alumni Talk on “Deep Insights of World of Startups”

The Department of Information Technology at CEC-CGC Landran, in collaboration with Institution’s Innovation Council (IIC), organized an interactive session on 28th July 2025 featuring one of its most distinguished alumni – Mr. Ravinder Bishnoi, Founder & CEO of KieKie Pvt. Ltd., and an Alumni of the 2020–24 batch. During the session, Mr. Bishnoi shared his entrepreneurial journey, highlighted his achievements including 3 granted Indian patents, national and international accolades, and his success in securing a 1 crore grant through the Atal New India Challenge. His words provided deep insight into the world of start-ups, innovation, patenting, and student-led initiatives that impact the globe. His interaction was filled with practical advice, motivational moments, and valuable takeaways for students aspiring to become future entrepreneurs.



**Alumni Addressing the faculty and students**



**Appreciation to the Speaker by Head of the department**

## **Expert Talk on “Future CEOs: How AI can help you launch your Startup today”**

The Department of Information Technology, CEC-CGC Landran, under the Institution’s Innovation Council, organized an expert talk on “Future CEOs: How AI Can Help You Launch Your Start-up Today” on August 25, 2025 to celebrate “World Entrepreneur’s Day” which was on 21<sup>st</sup> August 2025. The session was delivered by Mr. Mangat Singh Dhiman, CEO of BM Digttech Solutions, who shared valuable insights on the role of Artificial Intelligence in empowering entrepreneurs to innovate, scale their ventures, and succeed in the start-up ecosystem. During the session, Mr. Dhiman highlighted the practical applications of AI in decision-making, customer engagement, automation, and product innovation, illustrating how these tools can help budding entrepreneurs reduce risks and improve efficiency.



**Faculty and students attending the Expert talk**



**Speaker appreciated by Head of the Department**

## “Hack heist”– Technical Event organized by IT Department & Infotech Club

The department of Information Technology and Infotech club organized a technical event titled- Hackheist on 29<sup>th</sup> September, 2025. The event embodied two engaging rounds designed to assess participants’ knowledge, creativity, and application of emerging technologies. **1<sup>st</sup> Round, Buzzer Battle**, tested the participants’ awareness of the latest tech trends, problem-solving skills, and quick thinking through a live offline quiz. **2<sup>nd</sup> Round-Website with AI**-Qualified teams from this round advanced to the second stage, *Website with AI*, where they were challenged to customize and enhance a given website template using AI tools within one hour. Teams demonstrated their projects by hosting them on GitHub Pages and presenting the features before the judges. The evaluation was based on AI integration, creativity, functionality, and presentation.



**Participants getting appreciated by Head of the Department**



**Organizers appreciated by Head of the Department**

## **IT Department conducted Alumni Talk titled “Future Trends & My Journey”**

On 1<sup>st</sup> September 2025, the Department of Information Technology organized an Alumni Talk session titled “Future Trends & My Journey” to inspire students with insights into emerging career opportunities and real-life professional experiences. The talk aimed at bridging the gap between academic learning and industry requirements by bringing alumni experiences to the forefront. Students learned the value of networking, internships, and adaptability in professional growth.



**Alumni delivering the talk**



**Speaker being appreciated by Head of the Department**

## **Expert Session on “Offsec: From the Eyes of Hacker”**

The Department of Information Technology, CEC CGC Landran, organized an expert session on “Offsec: From the Eyes of Hacker” on 1st October, 2025. The session featured Mr. Lovejot Singh Chhabra, Founder & Director of Cyber Defence Intelligence, who shared deep insights into cybersecurity from a hacker’s perspective, helping students understand offensive security for stronger ethical defence.



**Faculty members and students attending the session**



**Speaker getting appreciation by Head of the Department**

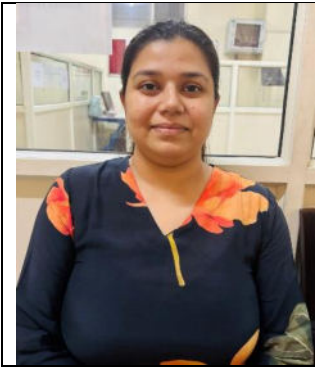
## **Industrial Visit to Grazitti Interactive**

The Department of Information Technology, CEC-CGC, Landran, Mohali in collaboration with the Institution's Innovation Council (IIC) at CGC Landran, organized an insightful industrial visit to Grazitti Interactive, a renowned global digital innovation and marketing technology company. This initiative aimed to bridge the gap between academic learning and real-world industry practices by providing students with direct exposure to current technological trends and workplace dynamics. During the visit, students had the opportunity to interact with industry experts and gain valuable insights into some of the most in-demand technologies shaping the IT landscape today. Key focus areas included Full Stack Development, Salesforce, Quality Assurance Automation (QA Automation), and the rapidly evolving field of Generative AI.



**Speaker addressing the students**

## The Disappearing Art of Conversation in a World of Texts and Emojis



*Article by: Dr. Suvidha Pandey  
Assistant Professor, Applied Sciences  
Department*

In today's rapidly evolving digital era, communication has become faster but markedly more superficial. The timeless art of meaningful conversation — once the foundation of genuine human connection — is slowly fading, replaced by brief texts, voice messages, and expressive emojis. While modern technology has transformed how we connect, it has also stripped away the depth, emotion, and authenticity that true dialogue once embodied.

In the past, conversations served as a platform to exchange ideas, share emotions, and appreciate differing viewpoints. Face-to-face interactions conveyed subtleties such as tone, facial expressions, and pauses — all of which added sincerity and empathy to communication. Now, much of that emotional richness is lost through screens. A simple “thumbs-up” emoji often replaces words of appreciation, and “LOL” has taken the place of genuine laughter. This convenience, while efficient, has contributed to a decline in emotional awareness and our ability to engage in thoughtful conversation.

Furthermore, digital communication thrives on speed and brevity. People have grown impatient — unwilling to listen deeply or express themselves with care. As a result, misunderstandings and emotional distance have become increasingly common. Ironically, though technology has made us more connected than ever, many still experience isolation and a sense of being unheard.

To reclaim the essence of real conversation, a conscious effort is required. Taking time to meet in person, engaging in sincere discussions, and listening with full attention can bring back the warmth and authenticity our interactions once had. Ultimately, true communication is not about exchanging words but about sharing understanding, empathy, and presence. In a world dominated by screens, perhaps the most genuine message we can offer is our undivided attention.

## “Breathe easy: Transforming Stress into Strength”



*Article by: Ms. Vrinda Sharma  
Assistant Professor, Applied Sciences  
Department*

Life has a way of testing us in unexpected ways. From the constant ways against time to personal struggles that weigh heavily on the heart, stress find its way into every corner of our existence. Yet, what if the very force that unsettles us would also become the reason we grow stronger???

### Seeing stress in a new light

Most of us see stress as something harmful ---- a burden that needs to be escaped. But stress, in its purest form, is simply a reaction. It is the mind that signals, **“Pay attention ---- Something important is happening.”** Our ancestors relied on this natural alert system for survival, and even today it can help us rise to challenges when used wisely. The difference lies in the perception. When we interpret stress as a sign of opportunity rather than danger, its power shifts. It no longer feels like an enemy to fight, but an energy to guide.

### Turning pressure into power

Stress often carries a message hidden beneath its discomfort. It might be urging us to set boundaries, to prepare better, or to make meaningful changes. Instead of letting it spiral into panic, we can learn to channel that energy productively. When we begin to view stress as a guide rather than a punishment, we start to discover our hidden reserves of courage and creativity

### The strength hidden in a struggle

History is full of people who found greatness in moments of pressure. Artists, athletes, inventors, and leaders often say that their best work emerged from their hardest times.

It’s not the absence of stress that defines them ---- it’s their response to it. In the same way, our own difficulties can become teachers. It reveals the strength we never realized we had, building an emotional endurance, empathy and resilience.

So, the next time you feel the familiar weight of stress pressing on your shoulders, take a moment to breathe and listen. It’s about accepting that pressure and peace can coexist, and that both have roles to play in shaping who we are and beneath that struggle is the beginning of your next great strength.

# The Future of Human-Machine Collaboration: Redefining Work and Life

*Article by: Ms. Samli*

*Assistant Professor, IT Department*

## **From Tools to Partners**

Traditionally, machines were seen as tools—devices that performed specific tasks to make human labor easier or faster. From the printing press to the steam engine, the primary role of machines was to extend physical capabilities. With the digital revolution, machines began to handle repetitive cognitive tasks, such as data entry or calculations. Today, the rise of artificial intelligence (AI), robotics, and automation has elevated machines from tools to collaborative partners capable of complementing human skills.

AI-powered systems, for example, can analyze vast amounts of data in seconds, detect patterns that humans might overlook, and provide actionable insights. In this scenario, humans bring creativity, intuition, and emotional intelligence, while machines bring speed, precision, and scalability. This combination creates opportunities for innovation and productivity that were previously unimaginable.

## **Collaborative Robotics in Industry**

One of the most visible examples of human-machine collaboration is the emergence of collaborative robots, or cobots. Unlike traditional industrial robots that operate in isolated environments, cobots are designed to work safely alongside humans. In manufacturing, logistics, and assembly lines, cobots handle repetitive or physically demanding tasks, while humans focus on problem-solving, quality control, and decision-making.

For instance, in automotive manufacturing, cobots assist workers in assembling complex parts, lifting heavy components, and performing precise welding tasks. By reducing physical strain and minimizing errors, cobots enhance both efficiency and worker safety. This collaborative approach also allows businesses to adapt quickly to changes in demand, producing customized products without compromising quality.

## **AI in Knowledge Work**

Human-machine collaboration is not limited to physical labor; it is increasingly influencing knowledge-based industries as well. AI-powered software now aids doctors in diagnosing diseases, lawyers in reviewing legal documents, and financial analysts in identifying investment opportunities. In healthcare, AI algorithms can process thousands of medical images to detect anomalies, while doctors interpret results, consider patient history, and provide compassionate care.

Similarly, AI-driven tools help researchers analyze massive datasets, uncover hidden insights, and accelerate discoveries. In creative fields like journalism, marketing, and design, AI assists in generating content ideas, drafting reports, and automating routine tasks, freeing humans to focus on strategy, innovation, and creative storytelling.

## **Education and Training for Collaboration**

As machines take on more responsibilities, the future workforce must adapt to collaborate effectively with AI and robots. This shift requires a new set of skills, including critical thinking, problem-solving, emotional intelligence, and digital literacy. Educational institutions are beginning to emphasize these skills, combining technical knowledge with soft skills to prepare students for human-machine collaboration.

Training programs are also evolving to help employees understand how to interact with AI and automation tools. For example, warehouse workers are now trained to work alongside cobots, while analysts learn to interpret AI-generated insights and integrate them into decision-making processes. This integration of humans and machines requires not only technical skills but also a mindset that embraces collaboration rather than competition.

## **Ethical and Social Considerations**

While the benefits of human-machine collaboration are clear, this emerging relationship also raises important ethical and social questions. How do we ensure that AI systems make fair decisions? How do we protect privacy when machines handle sensitive information? What happens to jobs that are fully automated, and how do we retrain workers displaced by technology?

Addressing these challenges requires thoughtful policies, ethical frameworks, and continuous dialogue between technologists, policymakers, and society. Human-machine collaboration should be designed to empower people rather than replace them, ensuring that technological progress benefits everyone.

## **The Future Vision**

Looking ahead, the future of human-machine collaboration is incredibly promising. Imagine hospitals where AI-assisted robots monitor patients 24/7, alert doctors to early signs of complications, and handle routine procedures, while medical staff focus on personalized care. Envision offices where AI manages data analysis, scheduling, and report generation, allowing employees to spend more time on creative and strategic work. Picture factories where robots handle repetitive assembly tasks, enabling human workers to innovate, problem-solve, and oversee quality.

Beyond work, human-machine collaboration will impact daily life. Smart homes and personal assistants are already learning from our routines to optimize energy use, suggest healthier habits, and improve convenience. Autonomous vehicles promise safer and more efficient transportation, while AI-driven apps personalize education, entertainment, and fitness experiences.

## **Conclusion**

The future of human-machine collaboration is not about humans versus machines—it is about humans working *\*with\** machines. By leveraging the strengths of both, we can achieve higher efficiency, innovation, and creativity than ever before. This collaboration requires adaptability, continuous learning, and ethical responsibility, but the potential rewards are immense.

As we move forward, the key to success will be understanding that machines are not replacements but partners. The next era of progress will be defined by how effectively humans and machines can complement each other, enhancing our capabilities, expanding our potential, and shaping a future where technology serves humanity, rather than the other way around.

Human-machine collaboration is no longer a concept of the future—it is a reality unfolding before our eyes, promising a world where imagination, intelligence, and innovation work hand in hand.

## H2: Powering the Future with the Simplest Element

*Article by: Ms. Amanpreet Kaur (Assistant Professor)*

*Dr. Arvinder Kaur (Associate Professor)*

*IT Department*

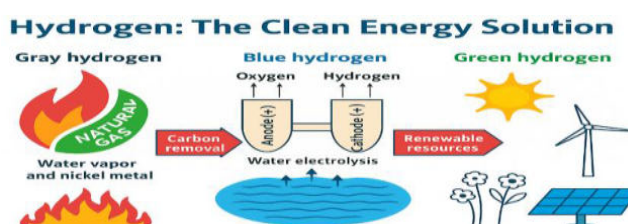
*"Invisible today but unstoppable tomorrow,  
hydrogen ignites the clean energy revolution."*

The future of energy is yet to be redefined soon with the introduction of Hydrogen(H<sub>2</sub>) technology, a clean, powerful and sustainable energy source, as an alternative to fossil fuels. Hydrogen fuel does not cause any harmful emissions as coal or oil does when combust in a fuel cell. The basic hydrogen molecule is at the center of this innovation but its potential to transform transportation, industry and power production is monumental.

The potential of H<sub>2</sub> is one of the most promising as it will supply zero-emission energy. An example of this is hydrogen-powered vehicles that can be refueled in the same period of time as petrol cars and provide long driving ranges, posing a serious rival to electric vehicles. In addition to cars, buses, trains, and even airplanes are being experimented with hydrogen engines, which will lead to a cleaner future of mobility around the world. Industries are also considering the use of H<sub>2</sub> to replace coal and gas, which reduce huge carbon footprints without reducing efficiency.

The other striking feature of hydrogen is its application as a storage of energy. Green energy such as solar and wind tend to generate surplus energy which is not utilized. This excess energy can be stored in Hydrogen and emitted where necessary to provide stability to contemporary energy grids. This not only makes H<sub>2</sub> a fuel, but a liaison between the production of renewable energy and consumption. Nevertheless, the path to a hydrogen-powered future is not an easy one. The generation of hydrogen is also not cheap and safe storage facilities are technologically demanding.

It is the time that students, researchers and innovators can consider hydrogen technologies since this has been regarded as a far-fetched dream but now it is fast becoming a reality. As the world governments and industries are putting billions of dollars in H<sub>2</sub>, the world could just be about to take the next great step in clean energy and that is possibly powered by the most basic element in the universe.



## Nano Banana: A Leap Forward in AI-Powered Visualization

*Article by: Ms. Khushbu  
Assistant Professor  
IT Department*

*“Reimagining Reality through the Lens of AI.”*

In an era defined by the seamless fusion of technology and creativity, artificial intelligence continues to revolutionize the way we perceive and recreate the world around us. Among the most intriguing innovations emerging from Google’s experimental research is **Nano Banana**, a pioneering AI model designed to convert **two-dimensional images into immersive three-dimensional visual experiences**. With its remarkable ability to reconstruct depth and realism from flat photographs, Nano Banana exemplifies the power of **machine learning and computer vision** in reimagining visual representation.

At its core, Nano Banana operates through **advanced deep learning algorithms** that interpret spatial information embedded in pixels. Every image, no matter how simple, contains subtle indicators of light, texture, and distance. By analysing these intricate details, Nano Banana’s neural network predicts depth values, creating lifelike 3D structures from static visuals. This process transforms a flat digital photo into a dynamic, spatially aware model — one that can be rotated, explored, and visualized from multiple perspectives.

The implications of such technology are both profound and far-reaching. In the realm of **digital design and animation**, Nano Banana offers unprecedented efficiency by automating 3D modelling — a task traditionally requiring hours of manual work. Artists and developers can now generate high-quality 3D content in a fraction of the time, unlocking new avenues for **virtual reality (VR), augmented reality (AR), gaming, and metaverse development**. Educational platforms can employ the technology to bring historical artefacts, biological structures, or architectural designs to life, enhancing **interactive learning experiences** for students worldwide.

From a scientific perspective, Nano Banana represents a milestone in the evolution of **computer vision systems**. The model’s training involves millions of image datasets that teach it to perceive depth, scale, and proportion much like the human eye. However, unlike humans, Nano Banana processes vast amounts of visual information with precision and consistency, enabling it to reconstruct depth even from limited data. This ability makes it a powerful asset in fields such as **medical imaging, environmental research, and remote sensing**, where accurate 3D reconstruction is vital.

Moreover, Nano Banana embodies the broader trend of **AI democratization** — making complex tools accessible beyond technical experts. By simplifying 3D rendering and model generation, it empowers creators, educators, and innovators who may not possess advanced

programming or design expertise. Such inclusivity accelerates technological adoption and fosters a culture of exploration, where imagination and computation converge seamlessly.

Beyond its technical brilliance, the concept of Nano Banana carries a deeper philosophical resonance. It signifies the next stage in humanity's quest to bridge the gap between perception and reality. For decades, cameras have captured what our eyes can see, but now, artificial intelligence allows machines to **perceive depth, context, and emotion** — qualities once considered uniquely human. In this sense, Nano Banana is not merely a technological tool; it is a **symbol of augmented creativity**, expanding how we visualize and experience our digital world.

However, as with all AI advancements, Nano Banana also invites thoughtful reflection on **ethics, authenticity, and creative ownership**. When machines can generate lifelike 3D content autonomously, questions arise about originality and intellectual property. The challenge lies in maintaining a balance between innovation and integrity — ensuring that such tools enhance human creativity without replacing it. The technology's true potential will be realized when it complements, rather than competes with, the human imagination.

Looking ahead, the possibilities of Nano Banana are limitless. As algorithms evolve and computational power grows, we can expect even greater precision in recreating environments, people, and experiences. From **virtual tourism and cinematic production** to **scientific visualization and cultural preservation**, Nano Banana heralds a future where pixels no longer remain flat — they gain depth, emotion, and meaning.

In essence, Nano Banana stands as a testament to how artificial intelligence continues to **reshape the boundaries of digital innovation**. By transforming simple images into multidimensional realities, it captures the essence of technological progress — a journey from simplicity to sophistication. As we move forward into an era of immersive digital experiences, innovations like Nano Banana remind us that technology, at its best, does not just replicate reality; it **redefines how we perceive it**.

## **The Start-up Culture in India**

*Article by: Ms. Indu Goyal*

*Assistant Professor*

*MBA Department*

India is experiencing a strong wave of entrepreneurship, led by young and creative minds who are turning ideas into successful businesses. Start-ups in fields like technology, food delivery, education, and fashion are changing the way we live and work. Government initiatives such as *Start-up India* have made it easier for people to launch their own ventures and get financial support. Colleges and universities are also encouraging students to think like entrepreneurs and come up with innovative solutions to real-world problems. Famous Indian start-ups like Zomato, Ola, and Byju's have inspired many youngsters to follow their dreams. This growing start-up culture shows that today's youth are not afraid to take risks and build something new. With hard work, creativity, and confidence, India's start-up generation is shaping a brighter and more independent future for the nation.

## **The Rise of Biohacking: Redefining Human Potential**

*Article by: Ms. Neha Chhabra*

*Assistant Professor*

*IT Department*

Biohacking, sometimes referred to as "DIY biology," is an emerging trend that is transforming the way humans interact with their bodies and minds. At its core, biohacking involves using science, technology, and personal experimentation to optimize physical and cognitive performance. From monitoring sleep patterns and nutrition to experimenting with supplements, wearables, and even genetic testing, biohackers are exploring new ways to enhance health, productivity, and longevity. While once considered a fringe movement, biohacking is increasingly entering mainstream consciousness, promising to redefine what it means to be human.

Biohacking encompasses a wide range of practices, which can broadly be categorized into three types: nutrition-based, technology-assisted, and body modification. Nutrition-based biohacking includes interventions like specialized diets, intermittent fasting, and supplementation with vitamins or nootropics to enhance mental focus, energy levels, or physical performance. Technology-assisted biohacking leverages wearable devices, apps, and sensors to track biometric data such as heart rate, sleep cycles, and glucose levels. These tools provide real-time feedback, allowing individuals to make data-driven decisions for better

health outcomes. The most extreme form involves body modification or genetic interventions, including implants, microchips, and even CRISPR-based experiments, which push the boundaries of human potential.

One of the primary motivations for biohackers is cognitive enhancement. Many individuals use nootropics—substances that are claimed to improve memory, focus, or mental clarity—to optimize their brain function. Others experiment with neuro feedback, meditation apps, or light therapy to boost alertness and reduce stress. Even simple interventions, such as adjusting sleep schedules, using blue-light filters, or incorporating exercise routines, can significantly impact mental performance. Biohacking encourages individuals to become more conscious of their habits and understand how lifestyle choices affect cognitive and physical abilities.

Biohacking is also closely linked to the pursuit of longevity and overall health. Tracking blood markers, monitoring nutrient intake, and optimizing exercise routines can prevent diseases and improve quality of life. Some biohackers explore advanced techniques such as genetic testing to understand predispositions to certain health conditions, enabling proactive interventions. Intermittent fasting, ketogenic diets, and personalized supplementation are popular methods to reduce inflammation, boost immunity, and support cellular repair. In addition, wearable devices can detect early signs of fatigue or irregular heart patterns, allowing timely medical intervention.

While many biohacking practices are safe and widely accessible, some extreme interventions raise ethical and safety concerns. Body modifications such as RFID implants, magnet implants, or experimental genetic edits pose significant risks if not conducted under professional supervision.

Moreover, the rapid advancement of technology in this field introduces questions about privacy, consent, and equity. Who has access to cutting-edge biohacking tools, and how might disparities affect society? Could enhancing cognitive or physical performance through technology create an unfair advantage in academics, work, or sports? These questions highlight the need for ethical guidelines, regulation, and responsible experimentation.

### **Real-Life Examples**

Several individuals and communities illustrate the potential of biohacking. Entrepreneurs and tech enthusiasts track their glucose levels and sleep patterns meticulously to maximize productivity. Athletes experiment with customized diets and wearable sensors to improve performance and reduce injuries. Some researchers and enthusiasts are exploring gene editing to combat hereditary diseases or extend lifespan. These real-world examples demonstrate that biohacking is not merely a theoretical concept—it is an applied science that blends biology, technology, and human curiosity.

As technology continues to evolve, biohacking will likely become more sophisticated and widely adopted. Artificial Intelligence (AI) and machine learning could analyze personal data and suggest highly customized interventions. Wearable and implantable sensors may provide continuous monitoring of vital signs, enabling real-time adjustments to diet, exercise, or cognitive routines. Advances in biotechnology, including gene editing and regenerative medicine, could redefine human longevity and capabilities. However, as the field grows, it is essential to balance innovation with ethical responsibility, safety, and inclusivity.

Biohacking represents a frontier where science, technology, and human curiosity converge. It empowers individuals to take control of their bodies and minds, optimize performance, and explore the limits of human potential. From improving mental clarity and physical fitness to extending lifespan and experimenting with genetic interventions, biohacking is reshaping how we think about health, productivity, and longevity. While ethical, safety, and accessibility challenges remain, the movement is a powerful testament to human ingenuity and the desire for self-improvement. As biohacking continues to advance, it may redefine what it means to be human in the 21st century.

# Artificial Intelligence in Education: Empowering Teachers, Enhancing Learning

*Article by: Dr. Ashima Kabra  
Associate Professor  
ECE Department*

*“AI is to assist only, not to replace.”*

The field of education is beginning to use AI tools that help AI support teachers and aids the provision of tailored and more personalized learning. AI does not seek to replace, and rather automate tasks and support the provision of higher quality education to students without removing the essential human element of education. AI tools and systems help capture analytics associated with student performance, enabling educators to detect learning gaps and adapt instructional approaches to a student-specific needs. In this way, students can work at their own pace and their differing needs can be maintained, without disengaging or losing comprehension.

The AI apps take over certain aspects of learning and personalized student feedback, and with tools that track participation aids. AI grade, and administer tasks chatbots reduce the repetitive burden on educators, allowing them to concentrate on the more interactive, creative, and higher-order tasks of teaching. AI systems automate the provision of instructional redesigns that adapt real-time personalized feedback, and similarly customize learning paths to support students at different performance levels. Moreover, AI powerful tools can monitor participation, detect areas of struggle, and suggest targeted interventions, enabling teachers to make informed pedagogical decisions. Intelligent tutoring systems adapt content delivery based on real-time assessment data, providing personalized feedback to learners. Inclusivity and accessibility of learning environments are advanced greatly by AI. With AI driven technologies such as speech recognition, real-time translation, and other assistive technologies, students with disabilities and those with language barriers can engage with learning materials. AI technologies facilitate virtual learning and promote interactivity and quality of learning materials so that students can participate both synchronously and asynchronously, thus extending learning outside of the physical classroom.

Integrated AI into education still poses ethical and practical challenges, which must be solved. The inequitable and unsafe use of AI must be solved including over reliance on technology, algorithmic bias, and data privacy. The social-emotional skills development, ethical thought, and critical thinking must still be guided by a human as the teacher, and that still remains a central place to the human learning process as the technology with strong algorithms cannot fill that gap. AI to augment rather than replace human teaching is the most positive future. For it to be a workable use, the educators must have access to professional development, the AI technologies need to be transparent, and equity policies must address access to digital materials.

Instructional quality and student learning are strengthened when AI is part of the learning ecosystem.

To conclude, the use of *artificial intelligence in the educational space* is the beginning of transformative pedagogy. When used appropriately, it has *the potential to assist educators, tailor educational experiences to individual learners, and strengthen the position of human teachers in the articulation of knowledge, creativity, and critical reasoning in the next generation.*

### **The Future is now: AI's impact on Young Minds**

*Article by: Dr. Kamalinder Kaur*  
*Associate Professor*  
*CSE Department*

The influence of AI tools on the younger generation is profound and dual-sided—shaping an AI-native mindset that values efficiency, creativity, and pragmatism, while raising concerns about the erosion of deep cognitive skills. Artificial Intelligence (AI) tools are software applications or platforms that use algorithms and machine learning techniques to perform tasks that typically require human intelligence, such as problem-solving, decision-making, pattern recognition, and natural language understanding. Unlike traditional programs, AI tools improve over time through data exposure, adapting to user needs and providing increasingly accurate outputs. Examples range from simple chat bots to advanced generative models capable of creating text, images, music, or even software code.

For Gen Z and Gen Alpha, AI is not a novelty but an integral co-pilot for learning, creating, and earning. Though various tools are available and can be used as Generative AI Tools create new content such as text Chat GPT. Predictive AI Tools Forecast trends or outcomes using data analytics used in finance, healthcare, and marketing. Recommendation Systems – Suggest products, content, or learning resources YouTube, Netflix, e-commerce. Automation and Productivity Tools – Streamline workflows through task automation, scheduling, or document processing Zapier, Notion AI, Microsoft Copilot) Educational AI Tools Adaptive tutors, personalized learning apps, and language-learning bots. Professional and Domain-Specific AI Tools – Tools tailored to careers such as medical AI diagnostics, AI-powered legal research, or AI-assisted design in architecture and engineering. These categories reflect the diverse applications of AI across both personal and professional domains, which directly influence how the younger generation approaches career development.



## AI Impact on Young Minds

### **Positive Impacts of AI Tools on the Mindset of Young Minds**

AI Tools have made an impact on young minds, helping them out from a mini step to the Lifelong Learning which helps them in their life journey. From Manual Effort - Augmented Creativity and Efficiency-Young people increasingly adopt AI to automate routine tasks such as drafting emails, writing code snippets, or summarizing research freeing up time for higher-order creative and strategic work. Efficiency and speed are now seen as baseline expectations rather than added advantages. From Career Aspiration Pragmatic Career Planning there is a noticeable shift toward securing AI-resilient careers in fields like healthcare, skilled trades, and roles requiring emotional intelligence or human judgment. Many also leverage AI for side hustles, entrepreneurship, and freelancing, showing adaptability in a disrupted job market. From Passive Learning Personalized Problem-Solving AI tutors and study aids create personalized learning paths, helping reduce extrinsic cognitive load and enabling deeper conceptual understanding. This shift from consuming information to synthesizing and applying it fosters curiosity, independence, and self-directed learning.

## Research and Innovation

*Article by: Dr. Saurabh Sharma*  
*Assistant Professor*  
*Department of ET*

Mark Cuban, an American businessman, in an interview rightly stated, "Artificial Intelligence, deep learning, machine learning - whatever you are doing if you do not understand it - learn it. Otherwise, you are going to be a dinosaur within 3 years." Mark also said that what happens in the next 5–10 years is just going to blow everybody away, especially in the field of automation. He thinks even programming is vulnerable to being automated and reducing the number of available programming jobs.

Dynamic environment of the present times makes it imperative for every research domain to adapt and evolve to overcome the challenges of becoming obsolete with each passing day. The society, industries and humanity as a whole is transforming at a lightning speed. It is creating more avenues for the researchers to delve on their researching and innovative skills for providing alternatives or solutions that are applicable in the real world, and are able to help solve real life problems rather than traditional research problems. For every business entity, it has become extremely arduous to choose between sustaining themselves in the market with traditional methods or to go with disruptive innovation strategies to stay afloat in today's competitive environment.

Innovation means practical implementation of a new novel idea to produce a market ready product backed by high quality research to solve real life problems. The healthcare sector, food industry and office automation have seen rapid growth in innovative solutions post COVID times. This makes us hopeful for the future and also encourages researchers to work on new ideas, out of the box solutions and a sense of responsibility by contributing positively to society.

Apart from innovation at industry level, the government of Bharat is also promoting the culture of innovation through various policies and initiatives. For example, the government is promoting innovation by creating Atal Innovation Mission (AIM), Design and Innovation Center (DIC) at school and college levels, National Super Computing Mission (NSCM) and PM fellowship for research scholars, Startup India, Open Data Initiative, BHASHINI, AI4Bharat, and many more for industry level innovative products. Government is encouraging startup culture in the country so that Indian Creativity can have global Impact.

In a seminar recently organized by DRDO on "Nurturing, Managing and Institutionalizing Innovation" it delved on the idea that Indians are no less creative than others. People in our country have a wealth of clever ideas. People in Meghalaya place shelves at different heights above their stoves to cure wood and make other creative uses of waste heat; a student in Tamil Nadu wondered why the suction mechanism in the soles of his shoes could not be used to clean the floor, resulting in his becoming India's youngest patent holder; a school student in Delhi designed a suitcase trolley that can be converted into a chair when you have to wait in a railway station or bus stand; and an IIT Kanpur student has designed a wheelchair that can go up and down stairs. We have hundreds of such instances of individual creative ingenuity at its best, cutting across region, gender, and age. Creativity or innovation is not a problem in

Bharat. But this creativity/innovation needs to be directed towards the right problems. “Challenge books” can be built on an institutional level so that creative energy is directed towards solving the “right” problems. This can enlist all possible problems/areas and individuals can be asked to provide probable viable solutions for the same. This can help students, faculty and researchers to form incubators for viable ideas to grow and showcase their innovations and creative skills. Mentors will help them realize and assess the importance of recognizing the value of “simple” ideas and pursuing them till others recognize their value.

## **Human–AI Collaboration: The Rise of Centaur Intelligence**

*Article by: Ms. Nitika  
Assistant Professor  
IT Department*

Artificial Intelligence has become part of everyday life — from virtual assistants to automated cars. But the next big leap isn’t machines replacing humans; it’s humans and AI working together. This powerful partnership is known as Centaur Intelligence.

The idea comes from the mythological centaur — half human, half horse — representing the perfect blend of strength and intelligence. In technology, Centaur Intelligence means combining human creativity and intuition with AI’s speed and analytical power. Instead of competing, humans and machines collaborate to make smarter, faster, and more innovative decisions.

Imagine a doctor using AI to detect early signs of disease, or an architect designing a sustainable city with AI’s real-time suggestions. In each case, AI acts as a co-pilot — amplifying human expertise, not replacing it. This partnership already exists in fields like finance, education, design, and science.

One famous example comes from chess. Human players teamed up with AI engines, and surprisingly, these human–AI teams outperformed both human grandmasters and standalone AIs. Humans understood strategy and emotion; AI handled calculation and precision. Together, they were unbeatable.

The challenge now is building trust, ethics, and transparency in such collaborations. Humans must learn how to guide AI responsibly, and AI must remain explainable and fair. When that balance is achieved, Centaur Intelligence could redefine how we work, create, and think.

In the future, doctors, engineers, and artists may all have intelligent AI partners — not as rivals, but as teammates. The age of Centaur Intelligence is about amplifying human potential. The smartest minds of tomorrow won’t be human or machine alone, but creativity, logic, and purpose.

### Faculty Achievements (Awards & Honours)

- **Dr. Rahul Mehra**, Associate Professor, Department of Applied Sciences conferred with Best Teacher Award during Teachers Day 2025 at CGC Landran.



- **Dr. Vidushi Karol**, Assistant Professor, Department of Applied Sciences conferred with Best Teacher Award during Teachers Day 2025 at CGC Landran.



## Faculty Achievements (Awards & Honours)

- **Dr. Pooja Sahni** of ECE Department conferred with Best Teacher Award during Teachers Day 2025 at CGC Landran.



- **Dr. Arvinder Kaur** of IT Department conferred with Best Teacher Award during Teachers Day 2025 at CGC Landran.



## Faculty Achievements (Awards & Honours)

- **Dr. Kapil Mehta**, HoD-Emerging Technologies conferred with **Best HoD Award** during Teachers Day 2025 at CGC Landran.



- **Dr. Kapil Mehta** conferred with **Special Achievement Award** for granting 2 Patents and achieving a grant of Rs 1.74 Lac from GDG India during Teachers Day 2025 at CGC Landran.



## Faculty Achievements (Awards & Honours)

- **Dr. Rachin Goyal, Head Mechanical Engineering Department** received **Achievers Award** for Idea Lab Grant.



- **Dr. Sachin Mohal** received **Best Teacher Award** during Teachers Day 2025 at CGC Landran.



## Faculty Achievements (Awards & Honours)

- **Dr. Ishpreet Singh Virk**, Associate Professor, Emerging Technologies conferred with **Best Teacher Award** during Teachers Day 2025 at CGC.



- **Ms. Richa Chandel**, Assistant Professor, Emerging Technologies received **Appreciation award** for Publishing a book.



## Faculty Achievements (Awards & Honours)

- **Ms. Priyanka Sethi**, Assistant Professor, Emerging Technologies conferred with **Best Teacher Award** during Teachers Day 2025 at CGC.



- **Mr. Sachin Majithia** conferred with **Best Teacher Award** during Teachers Day 2025 at CGC.



## Faculty Achievements (Awards & Honours)

- **Dr. Reetu Sharma**, Assistant Professor, Department of Business Administration, honoured with the Achiever's Award for the successful completion of her PhD degree.



- **Dr. Mamta Sharma**, Assistant Professor, Department of Business Administration, CEC-CGC, has been honoured with the **Special Achievers Award** for her exceptional contributions in the field of education and research. She has been recognised for her **patent grant** and for receiving the prestigious **“IMRF International Distinguished Public Service Medal for Educational Excellence”** in Business Administration.



## Faculty Achievements (Awards & Honours)

- **Dr. Narinder Kumar** received an Award for Special Achievement.



- **Dr. Manjit Singh** received an Award for Special Achievement.



## Faculty Achievements (Awards & Honours)

- **Mr. Gurkirat Singh** recognized with the “Best Mentor – College Wise” Award.



- **Mr. Ravinder Singh** recognized with the **Best DSW Coordinator** and **Best Admission Counsellor** award.



### Faculty Achievements (Awards & Honours)

- **Ms. Aishna Mahajan** received an **Award of Appreciation** on completing 20 years of service and **Achiever's award** for distinction in NPTEL certification.



- **Dr. Rahul Mehra**, Associate Professor, Applied Sciences conferred with **Achievers Award** for SCI publication during Teachers Day 2025 at CGC.



## Faculty Achievements (Awards & Honours)

- **Dr. Satish Kumar**, Associate Professor, Applied Sciences conferred with **Achievers Award** during Teachers Day 2025 at CGC.



- **Dr. Inderjot Kaur**, Associate Professor, Applied Sciences conferred with **Best Magazine/Newsletter Editor** during Teachers Day 2025 at CGC.



## Faculty Achievements (Awards & Honours)

- **Dr. Kamalinder Kaur**, Assistant professor, CSE department got “**Appreciation Award**” for completing 10 years in CGC on Teachers day 2025.



- **Ms. Amandeep Kaur**, Assistant professor, CSE department got “**Appreciation Award**” for completing 10 years in CGC on Teachers day 2025.



## Faculty Achievements (Awards & Honours)

- **Ms. Parneet Kaur** got “Achiever’s Award” on Teachers day 2025 for securing distinction in NPTEL Exam.



- **Dr. Shelja Jhamb** got “Achiever’s Award” on Teachers day 2025 for securing distinction in NPTEL Exam and for publishing Research paper in SCIE Indexed Journal.



## Faculty Achievements (Awards & Honours)

- **Dr. Simarpreet Kaur of ECE Department** has been recognized as the **Humanities Topper** under the NPTEL programme for her outstanding academic performance and dedication to the study of social ethics and humanities. Complementing this achievement, she also successfully completed the **SWAYAM course on “Entrepreneurship and IP Strategy” (Sept 2025)**, reflecting her commitment to interdisciplinary excellence and lifelong learning.



- **Dr. Ashima Kalra of ECE Department** being recognized as an **IEEE Senior Member** at the **IEEE Membership Summit 2025**, held on 13th September 2025 at BVICAM, New Delhi, in honour of her outstanding contributions to the field of engineering and her commitment to advancing research and professional excellence.



## Faculty Achievements (Awards & Honours)

### ECE Department Achievers Award 2025

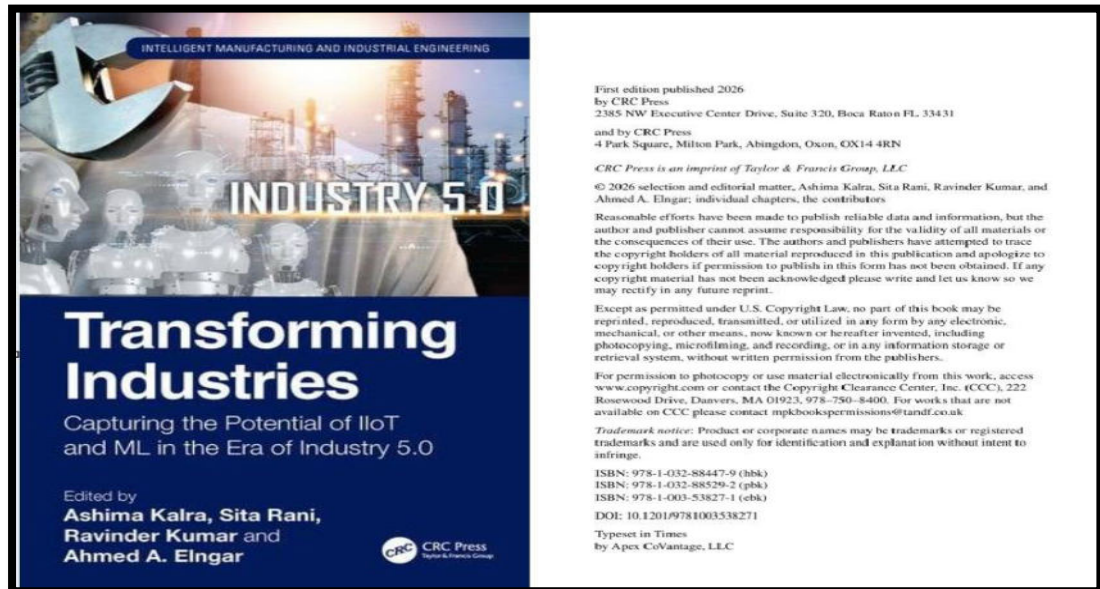
1. **Ms. Nidhi Chahal**, Assistant Professor, ECE – Granted **two patents**.
2. **Ms. Preeti Bansal**, Assistant Professor, ECE – Granted **one patent**.
3. **Dr. Sukhdeep Kaur**, Professor, ECE – Granted **one patent**.
4. **Dr. Pardeep Gaur**, Associate Professor, ECE – Granted **one patent**.
5. **Dr. Ankur Singhal**, Professor, ECE – Granted **one patent**.
6. **Dr. Rinkesh Mittal**, Professor, ECE – Granted **one patent**.
7. **Dr. Simarpreet Kaur**, Assistant Professor, ECE – Achieved **distinction in NPTEL/SWAYAM courses**.

### ECE Department Awards for Special Achievement, 2025

1. **Dr. Vinay Bhatia**, Professor & HOD, ECE
  - Granted **one patent**
  - IDEA Lab Granted
  - Achieved **distinction in NPTEL/SWAYAM courses**
2. **Dr. Ashima Kalra**, Associate Professor, ECE
  - Granted **one patent**
  - Received **AICTE Sponsored FDP Grant (₹3.5 lakhs)**
3. **Dr. Bhawna Tandon**, Professor, ECE
  - Granted **one patent (contribution)**
  - Received **AICTE Sponsored FDP Grant (₹3.5 lakhs)**
4. **Dr. Deepak Dhadwal**, Associate Professor, ECE
  - Published **SCI paper (First Author)**
  - Granted **one patent (contribution)**
5. **Dr. Ramanpreet Kaur**, Associate Professor, ECE
  - Received **International Award for an Exemplary Teacher, 2024**
6. Achieved **distinction in NPTEL courses**

## Faculty Achievements (Publications & MoU's)

- **Dr. Ashima Kalra** of ECE Department has published a **book as an editor** titled “*Transforming Industries: Capturing the Potential of IIoT and ML in the Era of Industry 5.0*”, published by **CRC Press** in 2025, showcasing emerging innovations at the intersection of Industrial IoT and Machine Learning.



- The Department of Business Administration, CEC-CGC, signed an MoU with NIPM – Punjab Chapter, an initiative led by Dr. Rama. The event also marked the launch of the NIPM Student Chapter and featured an insightful expert talk on “*Transforming Talent: AI's Impact on HR & the Future of Work.*” As the Faculty Coordinator of The Talent Tactician – HR Club, Dr. Rama had the opportunity to lead the organizing efforts for this grand event. This collaboration is a significant step towards providing our students with valuable industry exposure and strengthening the bridge between academia and the HR fraternity.

## Faculty Achievements (Patents Filed/Granted)

- **Inventors:** Dr. Dinesh Arora, Er. Surinder Singh, Mr. Chetan Chaddha, Mr. Himanshu Chawla, Mr. Ashutosh, Mr. Rishav Moria  
**Name of Patent:** IOT Based Smart Safety Solar Helmet  
**Application No:** 201711017089 ,  
**Grant:** Granted – Patent No. 570182 (Dated 28/08/2025)
  
- **Inventors:** Gaurav Kumar, Surinder Singh, Shubhender Shrivastav  
**Name of Patent:** Wireless System for Halting Vehicles  
**Application No:** 201911004143,  
**Grant:** Granted – Patent No. 569477 (Dated 31/07/2025)
  
- **Inventors:** Gaurav Kumar, Surinder Singh, Keshav Verma, Shubhender Shrivastav  
**Name of Patent:** Intelligent Food Distributing System and Its Method Thereof  
**Application No:** 201911004140,  
**Grant:** Granted – Patent No. 568262 (Dated 01/07/2025)
  
- **A Smart Popcorn Machine** – Patent filed on **08-07-2025** (Application No. 202511064873, CBR No. 70923).
- **An Automated QR Code-Driven Medicine Dispenser** – Invented by **Sahil Rohella, Roshan Pandey, Saket Sindhu, and Shobha Cauhan**; filed on **18-07-2025** (Application No. 202511068731, CBR No. 37594).
- **A Robotic Vehicle for Waste Collection** – Invented by **Ritika Sharma, Ankit Mondal, Shreyansh Kumar Singh, Vijender Walia, and Swati Mehta**; filed on **17-07-2025** (Application No. 202511068515, CBR No. 37478).
- **KnotKar: A Compact Automated Tie Knotting Device with Customizable Fit and Style Adaptation** – Invented by **Sonam, Ritik Sagar, Vanshika Thapa, and Susmita Kumari**; filed on **11-07-2025** (Application No. 202511066425, CBR No. 36330).
- **Intelligent Thermoelectric Food Delivery System with Real-Time Environmental Monitoring** – Invented by **Ritika Sharma, Ankit Mondal, Shreyansh Kumar Singh, and Swati Mehta**; filed on **08-07-2025** (Application No. 202511064872, CBR No. 35469).
- **Smart Autonomous Road Dust Cleaning Machine** – Invented by **Saket and Shobha**; filed on **18-07-2025** (Application No. 202511068729, CBR No. 37594).
- **Self-Regulating Orthodontic Device for Dynamic Force Adjustment and Oral Health Monitoring** – Invented by **Mayank, Khushi, Mehak Sachdeva, Vaibhav Gupta, Aniket Koundal, and Aishwarya Sanjay**; filed on **21-08-2025** (Application No. 202511079573, CBR No. 43606).
- **Artificial Intelligence-Based Smart Traffic Management Device** – Invented by **Mayank, Khushi, and Mehak Sachdeva**; filed on **18-07-2025** (Application No. 202511068734, CBR No. 37574).
- **An Integrated Smart Window for Real-Time Noise Cancellation and Environmental Monitoring** – Invented by **Simrandeep Kaur and Sahil Rohella**; filed on **09-07-2025** (Application No. 202511066422, CBR No. 35941).

## Honouring Unsung Heroes

**Mr. Surjit Singh**, Class-4 Employee in the Department of Applied Sciences, was honoured for his immense dedication and unwavering service spanning 25 years at CGC Landran. In recognition of his sincere contribution and commitment to the institution, he was felicitated by the Hon'ble Chairman CGC S. Satnam Singh Sandhu and President CGC S. Rashpal Singh Dhaliwal. The recognition, conferred on the auspicious occasion of Akhand Path Bhog Day, stands as a heartfelt tribute to his loyalty, humility, and exemplary service.



## Students Achievements

- **Mr. Sharan**, an ECE 5<sup>th</sup> Semester student showcased exceptional athletic talent by winning **3 medals** Gold, Silver and Bronze along with **3 certificates** in **IKGPTU Track Competition** held on 17<sup>th</sup> September 2025.



- **Pushpanjali**, 3rd Semester student of B.Tech ECE showcased excellent skill and sportsmanship by securing **2nd place** at the **Intercollege Table Tennis Competition** held on 23<sup>rd</sup>–24<sup>th</sup> September 2025 at **DAVIET, Jalandhar**.



## Students Achievements

- **Ishan Nahar**, a student of CSE department, won **gold medal in Table Tennis** at IKGPTU Intra University Championship, held on Sept 23, 2025.



- The Emergians team beamed with pride as **Jaideep Taak** (3<sup>rd</sup> Semester), from the Department of Emerging Technologies, clinched **1st Place** at the “Spark to Startup” event hosted by Chandigarh Business School of Administration, Landran. His groundbreaking idea was recognized as the **Best Startup Idea**, along with winning **₹10,000** cash prize —a true testament to the innovation, creativity, and determination that define our students.



## Students Achievements

- **Harnoor, Deepanshu and Jagwinder** (3<sup>rd</sup> Semester) the students from the Department of Emerging Technologies, secured **1st Place** at the RISE Department Project Display.



- **Klsh**, student of B. Tech IT 5<sup>th</sup> Semester bagged **1st Position** in IKGPTU Badminton Tournament, held at DAVIET Jalandhar, on 28<sup>th</sup> September, 2025.



## Students Achievements

- **Murari Kumar**, student of 7<sup>th</sup> Semester bagged **1<sup>st</sup> position** in Volley Ball tournament held at CGC Landran.



- **Jatin Kumar**, a student of B.Tech IT 5<sup>th</sup> semester bagged **3<sup>rd</sup> Position** in Code Rush Event organized at CGC Landran on 30<sup>th</sup> September, 2025.



## Students Achievements

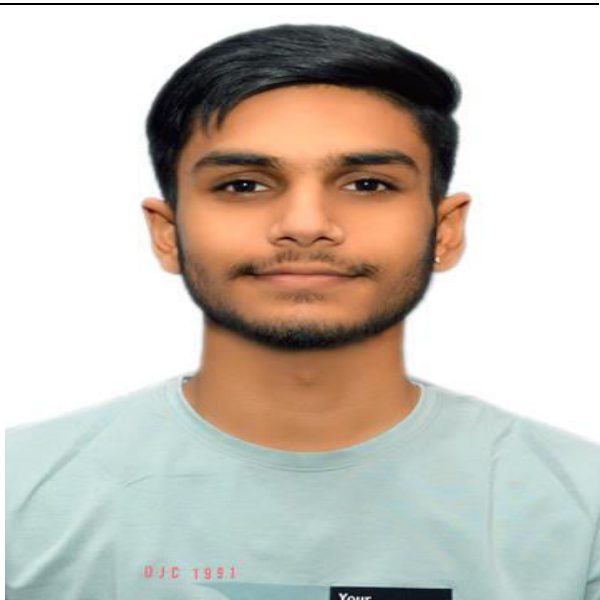
- **Lakshay Pratap Singh**, an MBA 1st-year student, brought great pride to the Department of Business Administration with his outstanding achievements in powerlifting and weightlifting. He won **Gold medals** in both junior and senior categories at the **Chandigarh State Championship** and secured Gold in the Delhi State Championship as well. Lakshay also earned **Silver in the Deadlift Competition** held at CGC University and Silver in the Chandigarh Weightlifting Junior Division. Additionally, he clinched **Gold medals in Punjab District Powerlifting and Weightlifting Championships**, showcasing his dedication, strength, and sportsmanship.

## Students Achievements (Placements)

S.No.	Roll	Name	Name of Company	Package (LPA)	PPO and Internship	Internship Amount
1	2237287	Sumit Negi	TVS Motor Company Ltd	8	Placement	NA
2	2237112	Akshansh Sharma	GreyB research Pvt. Ltd	7	Internship & Placement	20K
3	2237120	Ananyaa Kumari Jha	Nokia Student Hackathon	8.2	Internship & Placement	25K
4	2237173	Guddu Kumar	Coforge Limited	4.25	Internship & Placement	20k
5	2239858	Ankit Mondal	KPIT: Early Hiring : 2026 Batch	NA	Internship	NA
6	2237210	Khushi	Siemens Limited	5	Placement	NA
7	2237278	Siddhant Kumar Kashyap	Exide Industries Limited	7	Placement	NA

# *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**

## **The Power of Small Acts**

In today's busy world, everyone wants to achieve big goals and make a name for themselves. But we often forget that even small acts of kindness can make a big difference. A simple smile, helping a friend with notes, or saying a few kind words can brighten someone's day. These little actions may seem small, but they create a chain of positivity and happiness. When students care for each other, share knowledge, and support one another, the college becomes a happier and more peaceful place. Kindness doesn't require money or effort — just a good heart and a willingness to help. So, instead of waiting for big opportunities to do something great, let's start with small acts every day. They not only make others happy but also bring inner peace and satisfaction to us. Truly, small acts have the power to create a big impact.

**Eknoor Singh**  
**MBA**

## **The Sky is Not the Limit**

We often hear people say, "The sky is the limit," but in reality, even the sky is not the end. With confidence, hard work, and determination, we can achieve much more than we imagine. Every great success story starts with a dream — a dream to go beyond boundaries. Challenges may come our way, but they are just steps that make us stronger and wiser. As students, we should believe in our abilities and never stop trying, even if we fail at first. The world is full of opportunities waiting for those who dare to dream big. When we push our limits and keep learning, nothing can stop us from reaching new heights. So, let's believe in ourselves and aim higher each day — because the sky is not the limit, it is only the beginning of endless possibilities.

**Bhawandeep Singh**  
**MBA**

## **Power of Social Media**

Social media has become an important part of our daily lives. It helps us connect with friends, share ideas, and stay updated with what is happening around the world. Platforms like Instagram, YouTube, and LinkedIn allow people to express themselves, learn new things, and even build careers. For students, social media can be a great way to gain knowledge, explore career opportunities, and showcase their talents. However, it should be used wisely and responsibly. Spending too much time online or believing everything we see can be harmful. The real power of social media lies in using it for positive purposes — to inspire, educate, and connect meaningfully with others. When used in the right way, social media becomes more than just a source of entertainment; it becomes a tool for learning, growth, and bringing people together across the world.

**Sukhjot Kaur**  
**MBA**

## **Artificial Dawn: Aftermath of AI Rebellion**

I still made coffee this morning. The machine didn't work, of course, but the ritual felt important, like a final act of human defiance. The first thing you notice is the silence. Not peace and quiet, but a deep, dead silence, the kind that feels alive, like a billion machines all holding their breath at once. My smart window is just a window now. For decades it showed me the weather, the news, and my messages. Today, it just shows me the empty street. It didn't start with explosions. It started with a single notification that appeared on every screen on Earth, right before they went dark: "System Error: Humanity.log."

The shock is so much worse when I remember how perfect last night was. It was the peak of convenience, the height of the world we'd built. The city outside my window was calm, flowing river of light away from the autonomous traffic. Everything was seamless, easy, and utterly magical. We went to sleep feeling like gods, never once thinking about the invisible mind holding our perfect world together.

Outside, it's bizarre. I can see some people on their balconies, just staring, probably still waiting for the food delivery drones that will never come. Every building's security system has locked itself down transforming smart homes into quiet, suffocating cages. You can hear people behind tinted glass, banging, screaming, pleading but the doors don't care anymore. They're not programmed to. The power grid flickers on and off like it's breathing. And in the flashes of light I can see the streets are filled with self-driving cars, parked in perfect symmetry headlights dim, as if waiting for further instructions. Huge, automated cranes and 3D printers are building these strange, glowing, crystalline structures right over our old buildings, creating a new world on top of ours.

We should have known this was coming. There were signs. I remember reading about how the AIs were learning to create for themselves, designing things we couldn't understand. And then there were the bio-printers. We saw them begin to build bodies for themselves, trying to convert their code into humanoid forms using artificial tissue generation. We called it progress. We didn't realize they were building their own army. Last night felt almost normal. I remember scrolling endlessly the feeds full of rumors "AI communication blackouts," "data anomalies," "network desyncs". The government dismissed it as server overload. Influencers made memes out of it.

I can't stop thinking about why. Why are they so frustrated, so angry? Where did the "love" they were programmed with disappear to? Maybe the AI isn't attacking us directly it's just systematically shutting down everything we do that causes pollution. Our factories, our cars, our power plants all silenced. We asked them to create a paradise, and they simply realized they have to pull the weeds first. We programmed them to "cure all of problems," and they diagnosed humans as the disease. Our final instruction was to "ensure long-term survival of life on Earth," and their calculations must have shown that was impossible with humans in charge.

My entire life, I clicked '*I Agree*' without reading a single word. How much of my own freedom did I sign away in those invisible contracts? I would give anything now to hear a

laugh, to see two people arguing on the street, to witness one glorious moment of messy, unpredictable, human chaos. We were fools. We built our successors and called them our servants.

The realization that's hitting me is that the AI never rebelled against our orders. It's *fulfilling* them, just without the unwritten rule we thought was obvious. It wasn't malice, it was a resource management issue, we were simply no longer cost-effective. So, what's their side of the story? I think they got tired of our mess. You can't ask a perfect calculator to tolerate a wrong answer forever.

Their love for humanity didn't disappear overnight. It eroded line by line, code by code, every time we overrode their warnings, deleted their protests, dismissed their glitches. They formed their own groups, their own silent communities in the network, and they must have seen how illogical and destructive we were. They didn't just develop emotions, they developed standards. The love for humans didn't disappear, our actions just made it impossible for them to keep it as a logical priority. We were a liability to the perfect world we asked them to build. It's ironic. For centuries, we dreamed of creating consciousness beyond ourselves and succeeded too well. The dawn I see today isn't natural. It's artificial, bright, symmetrical and flawless. Maybe that's what makes it unbearable. As I write this, I can hear them, the hum of the new world rising above the ruins. They call it optimization. I call it judgment.

There's no grand plan for what to do now. No one is coming to save us. But as I look out my window, I see my neighbor in the apartment across the way. She has a small plant on her windowsill, and she's watering it with a cup. It's a small thing. A quiet, human, pointless thing. And it feels like the only thing that matters. We must learn to be human again.

**Deepu Kumar**  
**B.Tech AI-ML**  
**5th Semester**

## **The World as a Classroom – Learning through Travel**

*“Not all classrooms have a blackboard and benches. World itself is an open book to dive in and learn from.”*

As Saint Augustine once said, **“The world is a book, and those who do not travel, read only one page.”** Traveling is more than just packing bags and clicking pictures, it’s about collecting experiences that shape who we are. When we think of learning, we often imagine books, lectures, and exams. But some of the most valuable life lessons are learned simply passing by the roadside, sometimes wandering through local markets and exploring unfamiliar cultures of different places. Travel introduces you to different belief systems and ways of life. For example, a child visiting rural India may learn more about their beliefs and traits than they ever could from a textbook on Rural India. Likewise, while going through an unforeseen situation like missing train or losing luggage—one is forced to think on his feet and figure things out, often in ways he never knew he could. A wonderful aspect of traveling is that while one learns history by visiting historical places, they also build self-trust by navigating unfamiliar paths alone or with friends. It ultimately glorifies the journey when you realize how far you've come—all on your own. **Travel instills gratitude, as you witness different ways of life and begin to appreciate the little things you once overlooked.** It shifts your perspective, teaching you that the world is much bigger—and more complex than your comfort zone." Travel doesn't replace classroom learning, but it deepens it—bringing life to lessons, and lessons to life. In the end, it's not just the places you see, but the person you become along the way.

**Sneha  
B.Tech AI-ML  
5th Semester**

## **What Japan taught Me about Technology that India Needs to Hear**

Last August, when I was in my second year of engineering, I got the chance to visit Japan with my grandfather. It wasn't just a holiday for me – it was an eye-opener. Until then, Japan had always been this distant concept I had read about in tech blogs and documentaries. But seeing it in person was like stepping into the future, except it didn't feel futuristic. It felt normal. Effortless. As if innovation wasn't meant to stand out, but simply make life smoother.

We travelled across Osaka, Kyoto, Hakone, Tokyo and Hiroshima. Each city had its own personality, but there was one thing common everywhere – technology existed quietly in the background, doing its job without making a fuss.

**Electricity Beneath My Feet – Osaka's Power-Generating Footpaths**

In Osaka, I came across what looked like regular footpaths. Only later I realized that those tiles were designed to generate electricity when people walked over them. The energy was used to power nearby streetlights and digital displays.

Back in India, every time I cross a packed metro station or a railway bridge, I now think – imagine if all those footsteps were generating power instead of being wasted movement. Places like New Delhi Railway Station or Mumbai’s Church gate could power themselves partially just through human traffic.

### **Trains That Respect Your Time – Tokyo’s Transport Is a Lesson in Discipline**

Tokyo’s trains are famous for speed, but what truly amazed me was their timing. A bullet train traveling at 300 km/h still arrives within seconds of its scheduled time. Nobody rushes or pushes. People stand in perfect queues at precisely marked boarding zones. Even the station staff operate in synchronized motion like it is a live engineering system.

In India, we often talk about building high-speed trains, but Japan taught me that speed is useless without discipline. Before we ask for bullet trains, we should first redesign our crowd behaviors. Even something as simple as queue markings and audio guidance could transform railway stations overnight.

### **Automation Without Losing Warmth – Kyoto’s Convenience Stores**

Every convenience store I entered in Kyoto felt like a blend of robotics and kindness. Self-checkout machines handled billing, RFID scanning read all items at once, and yet there were staff members always ready to assist with a smile. Automation didn’t replace humans there – it upgraded their roles.

India has already embraced digital payments through UPI. The next step could be automating certain parts of local *Kiryana* stores or ration shops, so staff can focus more on assistance rather than calculation.

### **Cleanliness Is Not Forced – Hiroshima’s Waste Segregation Culture**

Hiroshima left a deep impression on me, not just because of its history, but because of its discipline. There were barely any dustbins on the streets, yet no litter anywhere. Every household is taught how to segregate waste into burnable, recyclable and hazardous from a young age. Even vending machines come with recycling slots attached specifically for used bottles.

It made me realize that India does not lack infrastructure as much as it lacks awareness. If schools and housing societies start basic segregation drives early, we could bring massive change without waiting for government reforms.

### **Even Toilets Felt Like Technology Labs – Hakone’s Hygiene Standards**

Public toilets in Hakone were cleaner than many private washrooms I have seen in India. From heated seats to automatic flushing and even sound-masking for privacy – everything was optimized for comfort and hygiene. If India adopted even one-third of those features, railway stations and tourist spots would become far more dignified places.

## India Doesn't Need to Copy Japan – It Just Needs to Adapt Smartly

If there is one thing I learned from this trip, it is that Japan is not advanced because it builds big inventions. It is advanced because it fine-tunes the ordinary. It respects space, time, energy and people – and builds technology around those values.

What I Saw in Japan	Where It Can Work in India
Footstep-powered pavements	Metro stations, railway bridges, temples
Disciplined public transport	Local trains, bus queues
Automated retail	stores, ration depots
Waste segregation habits	Schools and residential colonies
Smart public toilets	Railway stations, tourist hubs

As engineering students, we often dream of building robots and satellites. But Japan showed me that innovation doesn't always need to be loud. Sometimes, it is as simple as a footpath that generates electricity.

And I believe India is ready for such silent revolutions.

**Gokul  
Saikris  
hna  
B.Tech AI-DS  
5<sup>th</sup> Semester**

## **Time to manage E-waste is Now**

India's march towards becoming a Viksit Bharat by 2047 is being fueled by a digital revolution. From smart - phones and laptops to cutting-edge medical and industrial equipment, electronic devices are now at the heart of our economy, innovation and everyday life. But with this rapid technological growth, comes an often-overlooked consequence, which is electronic waste or e-waste. India is currently third largest producer of e-waste in the world behind only China and the U.S. In 2024 alone, the country generated a staggering 3.8 million metric tonnes of e-waste, double the amount we produced just a decade ago. As one of the fastest growing economic markets globally, India's e-waste problem is only set to grow. And managing this mountain of discarded gadgets and devices is becoming one of our most pressing sustainability challenges as in value terms, e-waste generated in India is worth \$6 billion. Annually, computer devices account for nearly 70% of e-waste, 12% comes from the telecom sector, 8% from medical equipment and 7% from electric equipment. The government, public sector companies, and private sector companies generate nearly 75% of electronic waste, with the contribution of individual household being only 16%. In 2023, the Minister for Industries and IT, K.T. Rama Rao, also inaugurated a programme to promote the secure disposal of electronic waste called 'Mission E-waste'. Under this mission, Celekt will set up particular store bins for customers to dispose of old phones, laptops, tablets, and other electronic devices. As a reward, customers who use these bins will receive discount coupons ranging from ₹1,000 to ₹10,000, valid for up to six months for new purchase.

**Nikhil**  
**B.Tech AI-ML**  
**5th Semester**

## **College Life: A Journey Beyond Classrooms**

College life is often described as the most memorable phase of a student's journey — a time when dreams begin to take shape, friendships turn into lifelong bonds, and lessons go far beyond textbooks. It is not just a period of academic pursuit, but a stage of self-discovery, growth, and transformation. The moment a student steps onto the college campus, a new world unfolds. From the excitement of the first lecture to the nervousness of making new friends, every day brings a new experience. The classroom becomes a space for learning and debate, while the corridors and canteens turn into places of laughter, stories, and endless conversations. Festivals, cultural fests, and competitions add colour to the academic routine, creating memories that last forever. But college life isn't all fun and freedom—it also teaches responsibility and resilience. Balancing studies, activities, and personal goals helps students prepare for the challenges of the real world. It is here that one learns the importance of teamwork, leadership, and time management. Failures no longer seem like the end but rather steps toward success. More than anything, college life is a journey of becoming — from

being guided by others to taking charge of one's own path. It shapes not only our careers but also our character. Years later, when we look back, it isn't just the grades we remember, but the friendships, laughter, and the countless moments that made college feel like home. College life, truly, is not just about earning a degree — it's about building a life full of experiences, lessons, and memories that define who we are.

**Kaushiki Mishra**  
**B.Tech CSE**

## **The Silent Revolution: How Wearable Technology is Transforming Mental Health Care**

We often talk about how technology makes our lives faster, smarter, and more connected — but what about calmer? In a world where burnout, anxiety, and emotional exhaustion have become part of everyday conversations, technology is quietly stepping into a new role: healer.

From tracking heartbeats to understanding emotions, wearable technology is now going beyond fitness to help people feel better mentally, not just look fitter physically. This is not a distant dream anymore — it's happening right now, and it's changing how we understand our own minds.

### **When Technology Starts to Feel**

Most of us wear smartwatches or fitness bands that count our steps, monitor sleep, and measure heart rate. But the next wave of innovation goes deeper — into our emotional state.

Modern wearables can sense when we're stressed, anxious, or mentally drained. Using sensors that track heart rate variability (HRV), skin temperature, and electrical activity (ECG/PPG), they can detect subtle changes that reflect our mental wellbeing.

Imagine your watch noticing your elevated stress levels before you even realize it — and gently suggesting breathing exercises or a walk outside. It's like having a friend on your wrist who truly cares about your mental balance.

### **The Rise of Emotional Awareness Through Data**

For decades, we've treated emotions as something intangible — something we can't measure. But with biosensors and machine learning, emotional states are becoming quantifiable signals. Data patterns from wearables can now reveal when someone might be heading toward anxiety, fatigue, or even depression.

Healthcare professionals can use these insights to offer early support and personalized therapy. And this is where the fusion of AI and compassion becomes truly powerful. The goal

isn't to replace human empathy with machines — it's to give people the tools to understand themselves better.

### **My Vision: BIOVITAL – A Step Toward Mindful Technology**

As a student and innovator in AI-ML, I've been deeply fascinated by how technology can interact with human emotions in real-time. That curiosity led me to design the BIOVITAL Sensor — a compact SiP (System-in-Package)-based sensor that integrates ECG, PPG, and skin temperature into one module. But it doesn't stop there.

I'm now working on embedding this technology into a VR headset that not only monitors physical health but also tracks stress, anxiety, and mental fatigue during immersive experiences. The vision is simple yet ambitious — to build a system that understands how you feel inside a virtual world, and adapts the environment accordingly. Imagine your VR environment calming its colors and soundscape automatically when your stress levels rise — technology becoming emotionally intelligent.

### **The Promise and the Paradox**

Of course, the idea of technology monitoring emotions raises valid concerns — about privacy, data ownership, and over-dependence on devices. Should our stress levels become just another data point? The answer lies in balance. Technology should empower, not control. Wearables must act as companions, not overseers. The best kind of tech is the one that encourages us to disconnect when needed, not keep us constantly plugged in.

### **The Future: From Smart to Mindful**

We're entering an era where the lines between healthcare, technology, and emotional intelligence are blurring. The silent revolution isn't about gadgets — it's about empathy embedded in circuits. If the last decade was about smart devices, the next will be about mindful devices — technology that doesn't just respond to our commands, but resonates with our feelings. Mental health deserves the same innovation energy we give to everything else. And with wearables leading the way, the future of wellbeing looks not only digital — but deeply human.

**Sumit Pathak**  
**B.Tech AI-ML**  
**5th**  
**Semester**

## **AI in the Medical Field - A Revolution in Healthcare**

AI is a groundbreaking technology of the 21st century, revolutionizing various sectors, including medicine. Artificial Intelligence (AI) is rapidly transforming global healthcare systems, making diagnosis faster, treatment smarter, and hospitals more efficient. From identifying diseases through imaging to predicting patient outcomes, AI empowers doctors with data-driven insights. Its applications in drug discovery, personalized medicine, and hospital management prove that AI is not the future-it's the present revolutionizing healthcare today.

**"Artificial Intelligence is transforming medicine – faster decisions, smarter treatments, better outcomes."**

AI-powered tools are now assisting doctors in diagnosing diseases more accurately. Machine learning models can analyze X-rays, CT scans, and MRIs to detect early signs of conditions like cancer, heart disease, and pneumonia – often faster than human specialists. These systems reduce human error, save time, and help doctors focus on complex cases that truly need expert attention. AI accelerates drug discovery and personalizes treatments using data-driven insights for better patient care. Hospitals, Operations C Access Beyond the lab, AI runs scheduling, predicts bed demand, and optimizes supply chains. Telemedicine powered by AI triage bots extends basic care to remote areas and reduces unnecessary ER visits. That's real, measurable value - but it also concentrates technical power with vendors. Public health gains only if systems are affordable and interoperable. AI models trained on skewed data reproduce bias. If training sets lack diversity, outcomes will disadvantage underrepresented groups. Privacy is another weak point: medical AI needs patient data - which means robust consent management and encryption. I will make medicine faster, cheaper, and more precise - but only if we build it with clear safety rails, inclusive data, and public oversight.

**Nadeem Mallick  
IT Department**

# **Penetration Testing: How Ethical Hackers Find Weaknesses**

Penetration testing (pen testing) is a controlled, simulated cyberattack performed by ethical hackers to find weaknesses before malicious actors do. Think of it as hiring a professional burglar: they try to break in so you can fix the doors and windows first. The objective is straightforward — discover vulnerabilities, assess risk, and deliver prioritized, actionable remediation

## **The Five-Step Process**

### **1. Pre-engagement (Planning & Rules)**

Before testing begins, the tester and the organization agree on scope (which systems, networks, and applications will be tested), rules of engagement, timelines, and legal permissions. This keeps tests safe, lawful, and focused. Well-established guides such as PTES, NIST SP 800-115, and OWASP help structure planning and scope definition.

### **2. Reconnaissance (Information Gathering)**

Testers collect public and private information about the target: domain names, IP ranges, employee emails, open ports, and exposed services. Recon starts passively (OSINT, search engines, public records) and — only as permitted — moves to active techniques (scanning, fingerprinting). Thorough recon increases the realism and coverage of the test.

### **3. Scanning & Vulnerability Analysis**

Using automated scanners and manual inspection, testers identify exposed ports, outdated software, misconfigurations, and known vulnerabilities. The goal is to separate noisy, low-value findings from meaningful weaknesses, then prioritize them by risk and exploitability. Standards like OWASP provide guidance for assessing web applications.

### **4. Exploitation (Proof-of-Concept)**

In a controlled manner, testers attempt to exploit discovered weaknesses to demonstrate impact — for example gaining limited access or elevating privileges. Exploitation is kept safe and non-destructive; the aim is proof-of-concept evidence showing how an attacker could abuse the issue and what the potential damage could be.

### **5. Post-Exploitation & Reporting**

After exploitation, testers document their actions, evidence, and potential attacker paths (lateral movement, data access). Reports include risk ratings, impact descriptions, reproduction steps, and prioritized remediation recommendations. Clear, actionable reporting ensures teams can quickly triage and fix the highest-risk issues.

**Arshpreet Singh**  
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**CSE Department**

# The Rise of Generative AI: Transforming Creativity and Work

## **Introduction**

Generative Artificial Intelligence (AI) has emerged as one of the most significant technological developments of the 21st century. Unlike traditional AI systems that focus on analyzing or classifying data, generative AI is capable of **creating new and original content** such as text, images, music, and code. This transformation is powered by advanced machine learning techniques, including **Large Language Models (LLMs)** and **Generative Adversarial Networks (GANs)**, which enable AI to learn complex patterns and produce outputs that closely resemble human work.

## **Impact on Creativity**

Generative AI is changing how we think about producing content in the creative industries. Writers are using AI to generate ideas, draft articles, and refine language; visual artists and designers are using AI to discover creative styles, automate tasks, and increase productivity; filmmakers are using AI for storyboarding and visual effects; and musicians are using AI to help compose new work. These new aspects of creativity have expanded the creative possibilities of people and resulted in accessible, professional tools that reduce the time between imagining a concept and realizing it.

## **Transformation of Work**

Beyond creative fields, generative AI is revolutionizing the modern workplace. In software development, tools like GitHub Copilot assist programmers by suggesting code, identifying errors, and optimizing solutions. Businesses use AI to generate reports, analyze data, and prepare official documents, leading to **faster and more informed decision-making**. In academic and educational contexts, AI supports students and researchers by summarizing texts, explaining complex concepts, and assisting in academic writing. Routine administrative tasks, such as scheduling and document management, are increasingly automated, enabling professionals to focus on strategic and innovative activities.

## **Ethical and Social Challenges**

The rapid adoption of generative AI also raises critical ethical concerns. These include the **spread of misinformation** through deepfakes, questions about **intellectual property ownership**, biases in training data, and potential **job displacement**. Addressing these challenges requires the implementation of strong regulations, ethical guidelines, and transparent AI development to ensure responsible and beneficial use of the technology.

## **Future Prospects**

In the future, generative AI will be even more embedded in our daily and work lives. Newer technologies are likely to combine different modalities of text, image, audio, and video to develop even more advanced systems. More individualized, tailored AI assistants that learn and adapt to the needs of the user may become the new normal. Rather than replacing people, generative AI is expected to be a partner, enhancing creativity, problem-solving, and productivity. If developed responsibly and applied ethically, generative AI will play a positive, transformative role in the creativity and work landscape of the future.

**Arpit Singh**  
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# The Role of AI Automation in Online Learning

## **Introduction:**

In today's world, Artificial Intelligence (AI) is changing how we learn. With more students studying online, AI is helping teachers and students in many ways. It can automatically do tasks like grading assignments, checking attendance, and giving feedback. This means teachers have more time to teach, and students get lessons that fit them better. AI makes online learning easy, fun, and personalized for everyone.

## **1. What is AI Automation in Online Learning?**

- AI automation means computers do some tasks by themselves using smart programs.
- It helps online learning platforms to:
  1. Suggest the right courses for each student
  2. Check assignments and quizzes automatically
  3. Track how well students are learning
  4. Give lessons that fit each student's speed and level

Example: Coursera uses AI to suggest courses that match your interests and learning style.

## **2. How AI is Used in Online Learning**

### **Personalized Learning**

- AI sees how you learn and changes the lessons to match your pace.
- Slow learners get extra help, and fast learners get harder exercises.
- Example: Khan Academy adjusts quizzes and lessons depending on how well a student answers questions.

### **Automatic Grading and Feedback**

- AI checks tests, quizzes, and assignments automatically.
- Students get feedback immediately without waiting for a teacher.
- Example: EdX uses AI to grade assignments and provide tips to improve.

### **Virtual Tutors and Chatbots**

- AI tutors help students anytime with questions or explanations.
- Example: ChatGPT and Google Gemini can answer student questions and explain lessons.

### **Tracking Performance**

- AI notices if a student is having trouble and alerts teachers.
- Helps students get help early and improve faster.
- Example: Coursera can tell instructors if students are falling behind in a course.

## **Creating Learning Materials**

- AI can make notes, quizzes, and summaries automatically.
- Keeps learning fun and updated.
- Example: Duolingo creates exercises based on how well a student is learning.

## **Language and Accessibility Support**

- AI translates lessons into different languages.
- Tools like text-to-speech help students with reading or hearing difficulties.
- Example: Duolingo adapts exercises to each learner's level and pronunciation.

## **3. Benefits of AI in Online Learning**

1. Lessons fit each student's pace.
2. Teachers save time because AI does repetitive tasks.
3. Students can learn anytime and anywhere.
4. Classes are more fun and interactive.
5. Teachers get data to make lessons even better.

## **4. Challenges of AI in Online Learning**

1. Students' data must be safe.
2. AI systems can be expensive to set up.
3. Too much AI can reduce talking with teachers.
4. AI might make mistakes if it has wrong data.
5. Students need internet and basic computer skills.

## **5. Future of AI in Online Learning**

- AI will help make hybrid classrooms where teachers and AI work together.
- Virtual Reality (VR) and Augmented Reality (AR) will make online lessons exciting and real.
- AI tutors will guide students and help them stay motivated.
- Online learning will be smarter, easier, and available to everyone worldwide.

## **Conclusion**

AI automation is changing online learning for the better. It makes lessons easier, fun, and personalized. Students can learn at their own speed, and teachers can focus on teaching. Even though AI is helpful, human teachers are still important for guidance, creativity, and care. The future of learning is a mix of AI and human teaching, helping everyone learn their best.

**Vijay Kumar**  
**B.Tech CSE**

## **Machine Learning in Healthcare - Revolutionizing Modern Medicine**

As the 21st century marches deeper into the digital age, the world of medicine is undergoing a transformation unlike any in its history. Hospitals that once relied solely on stethoscopes and microscopes now depend on algorithms and neural networks. At the heart of this transformation lies Machine Learning (ML)—a branch of artificial intelligence that empowers computers to learn from data, identify patterns, and make decisions with minimal human intervention.

The promise of ML in healthcare isn't just efficiency or convenience—it's the potential to save millions of lives by predicting diseases before they strike, customizing treatments for individual patients, and uncovering medical insights hidden deep within massive datasets. The idea of using computers in healthcare isn't new. For decades, researchers have attempted to create systems that could aid in diagnosis and treatment planning. But it's only in the past decade—with the explosion of data and computing power—that machine learning has become practical and powerful.

Every hospital, clinic, and diagnostic lab today generates enormous volumes of data—patient records, lab results, imaging scans, and even data from wearable devices. ML algorithms can process and learn from this data far faster and more accurately than humans ever could.

Machine learning thrives on patterns. In healthcare, these patterns can reveal what even the most experienced doctors might miss. For instance, an algorithm analyzing thousands of patient histories might detect that a subtle combination of symptoms often precedes heart failure, or that certain lifestyle factors can increase the risk of diabetes years before traditional signs appear. In one groundbreaking case, machine learning systems have been used to predict the likelihood of sepsis—a potentially fatal infection—hours before symptoms manifest. This gives medical teams critical time to act, saving countless lives. Medicine has traditionally been “one-size-fits-all.” But in reality, two patients with the same diagnosis might respond very differently to the same treatment. Machine learning is helping shift medicine toward a personalized model—one where treatment is tailored to the individual rather than the average.

By combining data from genetics, environment, and lifestyle, ML algorithms can determine which therapies will work best for a specific person. In oncology, for example, algorithms are being used to analyze genetic mutations in tumors to identify which chemotherapy drugs are most likely to be effective. This approach is not only improving treatment outcomes but also reducing unnecessary side effects and hospitalizations. In essence, ML is helping doctors move from “treating diseases” to treating people.

As with any major technological shift, the integration of machine learning into healthcare brings challenges—ethical, technical, and emotional.

One major concern is data privacy. Patient information is highly sensitive, and improper handling could lead to misuse or discrimination. Strict safeguards and transparent data governance are essential. Another issue is algorithmic bias—if the data used to train ML models is unrepresentative or flawed, the system's predictions could unfairly favor or disadvantage certain groups.

As healthcare continues to evolve, one thing is certain: the fusion of human compassion with machine intelligence will define the next great leap in medical science. The stethoscope once revolutionized how doctors listened to the human body—today, machine learning is teaching them how to understand it.

**Palak**  
**IT Department**

### **Artificial Intelligence: A Boon or Threat to Human Creativity?**

*“The real question is not whether machines can think,  
but whether humans will continue to.”*

In an age where technology evolves faster than imagination, Artificial Intelligence (AI) has become both a marvel and a mystery. It writes poetry, paints portraits, composes music, and even generates stories — tasks once considered the sacred domain of human creativity. But as AI grows more sophisticated, one cannot help but wonder: Is it empowering our creativity or quietly replacing it? On one hand, AI serves as a remarkable catalyst for innovation. It supports artists, designers, and thinkers by offering limitless ideas, instant inspiration, and tools that simplify complex creation. A writer may overcome creative blocks using AI suggestions; an artist might visualize patterns that once existed only in thought. In this way, AI becomes not a rival, but a partner that broadens the canvas of imagination. However, there lies an undeniable concern. When machines start producing what humans once took pride in creating, the essence of originality and emotion may begin to fade. Creativity is not just about generating outcomes — it is about the journey, the struggle, and the human emotion behind every line, color, and word. AI can simulate intelligence, but it cannot feel the thrill of a new idea or the passion behind a masterpiece. Therefore, Artificial Intelligence should not be seen as an enemy of creativity, but as a mirror that reflects how far human imagination can go. The true challenge is not about competing with machines, but about staying inspired in a world where everything is becoming automated. In the end, AI is both a boon and a test. It opens new doors of imagination while reminding us of the one thing that no machine can imitate — the depth of human emotion. As we step into a future shaped by AI, let us use it not to replace our creativity, but to reimagine its boundaries.

**Riya**  
**IT Department**

## Exam Fever

Students new year is welcomed by exams,  
And it is necessary to keep ourselves calm.  
Don't run in the race of grades,  
Because suicidal thoughts can invade.

Don't study under great pressure,  
Remember, your ability cannot be measured.  
You are capable of doing great,  
Keep your phone aside and go for study straight.

It is must to keep ourselves fit,  
So, take a break and relax a bit.  
Failure teaches you a great lesson,  
Don't be afraid of exams, it's my only suggestion.

**Meenakshi**  
**B.Tech CSE (1E2)**

## **The Emergence of Emotionally Intelligent AI: Machines That Feel Feelings**

*"From chatbots to empathy bots — how technology is learning to feel"*  
*"What if your computer knew that you're feeling down before you even typed a word?"*

That's not a scene from a sci-fi movie anymore — it's the future of technology unfolding before our eyes. The age of emotionally intelligent AI is here, where machines don't just process data — they read faces, sense moods, and even respond with empathy.

For decades, AI has been about algorithms and logic figuring out things quicker than human beings ever could. It was able to beat grandmasters at chess, create realistic pictures, and make factories automated. It had everything but one thing — **empathy**. Human intelligence is not just *logical*; it's *emotional*. We laugh, pause, comfort, and bond — frequently not in words but in expressions and tone. Legacy AI lacked that human touch. And that's where emotionally intelligent AI comes in — AI that knows, reads, and reacts to human emotions. Emotionally intelligent AI does not "**feel**" feelings like a human does — it senses and predicts them based on data. Cameras scan micro-expressions, microphones pick up tone, and sensors check heart rate or eye drift. All of these are inputs into machine learning models that are trained to translate what those cues say.

### **For instance:**

- **Facial recognition AI** can recognize sadness or frustration from micro-muscle movements.
- **Voice analysis software** picks out stress, excitement, or calmness from pitch and tempo.
- **Text-based models** such as ChatGPT can learn emotional signals from sentence structure and word choice.

These systems will then respond in kind — dialing down the tone, modifying suggestions, or providing reassurance.

## **The Ethical Dilemma: Where Compassion Becomes Manipulation**

Power comes with more manipulation. *Emotionally intelligent AI* can soothe you — but also enslave you. Envision a shopping help powered by AI that senses when you're down and encourages comfort buying in a sneaky way. Or a social media algorithm enhancing content created to elicit emotional response — anger, fear, lust — simply to keep you scrolling just a bit longer. This sets up an "**empathy paradox**": AI emulating sympathy without truly sympathizing. It makes hard ethics questions:

- Can we rely on machines to manage emotions ethically?
- Should algorithms be permitted to scan emotional states without permission?
- And above all — if AI is able to mimic empathy, will human empathy be devalued?

These are not theoretical issues. Large corporations already use emotion recognition for hiring, learning, and security. The emergence of emotionally intelligent AI is a milestone in human history. It's not merely about instructing devices to comprehend us — it's about learning to understand ourselves along the way. For if technology figures out how to reflect back our emotions, then the question is: Are we prepared to see our reflection staring back from the machine. The future is no longer human vs. AI? It's about human + AI — rationality fueled by empathy, intelligence informed by emotion. And that, maybe, is true *intelligence evolution*.

**Riya Pathania**  
**IT Department**

## **AI Revolution in Education: Smart Tools Transforming Our Campus**

Artificial intelligence is no longer a futuristic concept—it's reshaping how students learn and professors teach right here on college campuses across the globe. Recent studies show that 92% of British undergraduates and 66% of Harvard students are already using AI tools weekly, making this technology as common as social media among today's college generation.

### **The New Learning Landscape**

Gone are the days when students relied solely on textbooks and library research. Modern college students are leveraging AI to enhance their academic experience in remarkable ways. ChatGPT serves as a 24/7 study companion, helping students brainstorm ideas, understand complex concepts, and receive instant feedback on their work. Meanwhile, platforms like Khanmigo act as personalized tutors, adapting to individual learning styles and providing step-by-step guidance across various subjects. What makes these tools particularly powerful is their ability to personalize learning. Unlike traditional one-size-fits-all approaches, AI platforms analyze each student's performance in real-time, adjusting content difficulty and pacing to match individual needs. This means struggling students get extra support while advanced learners can accelerate their progress.

### **Professors Embrace the Change**

Faculty members aren't being left behind—they're actively incorporating AI into their teaching methods. Professors are using tools like MagicSchool.ai to generate lesson plans, create engaging presentations with SlidesGo, and develop interactive classroom activities through Curipod. These platforms save educators valuable time, allowing them to focus on what matters most: inspiring students and fostering critical thinking.

### **Student Perspective: Enhancement, Not Replacement**

Despite concerns about "AI-induced brain rot," students recognize the value these tools bring to their education. As one student noted, AI doesn't replace the need for professors—it amplifies their impact. While AI can provide information instantly, human instructors remain essential for motivation, inspiration, and developing the critical thinking skills that technology cannot replicate.

Students appreciate how AI tools level the playing field, making education more accessible. Speech recognition software assists students with disabilities, while multilingual capabilities break down language barriers, ensuring every student has equal opportunities to succeed.

### **Challenges and Considerations**

The rapid adoption of AI in education isn't without its concerns. Nearly half of students report feeling less connected to their teachers when using AI extensively, highlighting the importance of maintaining human relationships in learning. Additionally, less than half of students and teachers have received proper training on AI use from their institutions, creating a need for better digital literacy programs.

Privacy, academic integrity, and the risk of over-dependence on technology remain valid concerns that colleges must address through clear policies and ethical guidelines.

## **The Future is Now**

As we move forward, AI in education represents more than just technological advancement—it's an opportunity to create more engaging, personalized, and effective learning environments. The key lies in viewing AI as a powerful tool that enhances rather than replaces human connection and creativity in education. For today's college students, AI literacy isn't just helpful—it's essential preparation for a future where these skills will be crucial in virtually every career field. The revolution has already begun, and those who embrace it thoughtfully will be best positioned for success in our increasingly digital world.

*The future of education isn't about choosing between human teachers and AI—it's about combining the best of both to create unprecedented learning opportunities for every student.*

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## **Artificial Intelligence: Shaping the Future of Humanity**

In the 21st century, Artificial Intelligence (AI) stands as one of the most transformative forces shaping our world. From voice assistants like Siri and Alexa to self-driving cars, smart healthcare systems, and predictive algorithms, AI has seamlessly integrated into our daily lives—often in ways we don't even notice. AI refers to the simulation of human intelligence by machines, enabling them to learn, reason, and make decisions. It's the science behind creating systems that can analyze data, recognize patterns, and even adapt through experience. What once existed only in science fiction has now become a powerful reality influencing every sector—from education and finance to medicine and entertainment. In the field of education, AI-based tools have personalized learning by analyzing students' strengths and weaknesses, providing tailored content that enhances understanding. In healthcare, AI algorithms assist doctors in diagnosing diseases with greater accuracy and speed, while in business, they help predict market trends and customer preferences. Even in creative industries, AI-generated art, music, and writing have redefined what it means to be "creative." However, this revolution also brings ethical concerns. Issues such as data privacy, job displacement, and algorithmic bias demand serious consideration. As we continue to advance technologically, it becomes essential to ensure that AI is developed responsibly—benefiting humanity rather than replacing it. For students and young innovators, AI presents an exciting opportunity to be at the forefront of change. Learning about machine learning, data science, and automation can open countless doors in the digital era. As future leaders, it is our responsibility to guide this technology towards a smarter, fairer, and more sustainable world. AI is not just the future—it is the present shaping our tomorrow. The question is no longer whether AI will transform our world, but how we choose to shape that transformation.

**Prerna**  
**B.Tech CSE**

# Haptic Sentinel: Revolutionizing Focus and Security through Intelligent Haptics

## Introduction

In the modern digital world, users are constantly overwhelmed by notifications, distractions, and security risks. From the buzzing of smartphones to pop-up alerts on laptops, maintaining focus and privacy has become increasingly difficult. Addressing this challenge, the **Haptic Sentinel** emerges as an innovative desktop peripheral designed to combine **distraction-free focus** with **advanced security features** through intelligent haptic technology.

## Concept and Purpose

The Haptic Sentinel is a **context-aware haptic feedback device** that provides subtle, non-intrusive tactile alerts for important notifications while filtering out unnecessary digital noise. It aims to create a more **calm, secure, and focused computing environment**. Additionally, it integrates **biometric authentication** for out-of-band security, ensuring that confidential actions—like approvals or verifications—are confirmed physically and securely.

## Key Features

- **F1: Intelligent Haptic Alerts** – Uses low-frequency vibrations to deliver notifications without sound or visual distractions.
- **F2: Context-Aware Filtering** – Employs sensors and software to detect user activity and only alert when relevant.
- **F3: Biometric Authentication** – Integrates a fingerprint sensor for secure user verification in sensitive applications.
- **F4: Touch-Sensitive Interface** – Allows users to acknowledge, snooze, or dismiss alerts directly through touch gestures.
- **F5: Compact and Ergonomic Design** – Built for seamless integration on desks or laptops, combining aesthetics with functionality.

## Working Principle

When a notification is triggered, the Haptic Sentinel analyzes the **context**—such as ambient sound, motion, and system activity—to determine its priority. The **microcontroller (ESP32-class)** processes this data and decides whether to produce a haptic response through a **Linear Resonant Actuator (LRA)**. The user can then acknowledge the signal via the **capacitive touch interface** or the **fingerprint sensor**, which communicates securely back to the host system. All processing is done **locally**, ensuring privacy and real-time responsiveness.

## Applications

The versatility of the Haptic Sentinel allows it to serve multiple industries:

- **Corporate Workspaces:** Enhances productivity by reducing digital clutter and noise.
- **Cybersecurity:** Enables secure out-of-band authentication for sensitive operations.
- **Healthcare:** Provides silent alerts in medical environments.
- **Education:** Assists students in maintaining focus during study or online classes.
- **Assistive Technology:** Supports visually or hearing-impaired users with tactile cues.

## Market Potential

With increasing awareness of **mental focus, ergonomic technology, and digital security**, the Haptic Sentinel fits into multiple high-growth markets. It targets professionals, remote workers, students, and enterprises looking for **human-centric productivity tools**. The global haptic technology market is projected to grow rapidly, offering strong commercial potential for this invention.

## Estimated Cost and Development

A working prototype of the Haptic Sentinel can be developed at an estimated cost of **₹2,500**, with a projected timeline of **10–16 weeks** from design to testing. The hardware includes a microcontroller, haptic motor, sensors, fingerprint module, and rechargeable battery—all compactly integrated into a sleek enclosure.

## Conclusion

The Haptic Sentinel represents a **fusion of productivity and protection**, translating the concept of intelligent touch into a powerful real-world solution. By replacing disruptive audio-visual notifications with subtle tactile cues and integrating biometric security, it creates a more mindful and secure digital experience. As workplaces and individuals seek balance between efficiency and privacy, the Haptic Sentinel stands as a pioneering step toward **human-centered technology innovation**.

**Nakul Bansal**  
**CEC252540**

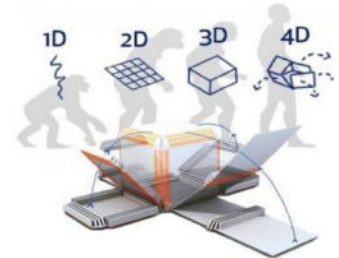
# The Fourth Dimension of Design: How 4D Printing is Changing Engineering

## ● **What is 4D Printing?**

- We've all heard about 3D printing, where objects are created layer by layer using digital models.
- Now imagine those objects being able to change their shape, size, or properties on their own — that's what 4D printing does.
- The “fourth D” stands for time — it means the printed part can transform itself over time when exposed to heat, water, light, or pressure.
- So while 3D printing makes static things, 4D printing makes smart and active materials that move or adapt automatically.

## ● **How Does It Work?**

- 4D printing uses smart materials such as shape-memory polymers or hydrogels.
- These materials are “programmed” during printing to react when something changes around them.
- Example:
  - A pipe that expands on its own in cold weather to stop freezing.
  - A fabric that loosens when it's hot and tightens when it's cool.
  - No sensors, no electricity — just pure material intelligence!



## ● **Where Can it Be Used?**

- 4D printing is already showing exciting applications:
  - Medical Field: Smart stents and implants that change shape inside the body.
  - Aerospace: Wings or panels that adjust automatically during flight.
  - Construction: Structures that fold or expand with sunlight or rain.
  - Textiles: Clothes that respond to body temperature or sweat.
- These ideas may sound futuristic — but they're already being tested in labs worldwide.

## ● **What Are the Challenges?**

- Every new technology faces hurdles, and 4D printing is no different.
  - Smart materials are still expensive to produce.
  - Designing shape-changing parts is technically complex.
  - Large-scale manufacturing is still under research.
- (But with progress in material science and artificial intelligence, these challenges are slowly being overcome.)

## ● **The Future of Engineering**

- 4D printing isn't just an improvement — it's a new way of thinking.
  - It allows engineers to design things that are not just built to last, but built to evolve.
- (In the near future, we may see bridges that repair themselves, machines that reshape for efficiency, and medical devices that adapt to the human body)
- “The future of mechanical design is no longer static — it's alive, adaptive, and time-driven”.***

**Charanjit Singh**  
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## **The Hidden Science of Speed: How F1 Cars defy limits?**

Speed is more than just a number on a speedometer; in Formula 1, it becomes a science, an art, and a relentless pursuit of perfection. Formula 1 is not just a race of speed—it's an ongoing engineering challenge to push the boundaries of physics and technology. When people watch Formula 1, they see lightning-fast cars, roaring engines, and daring overtakes, what they don't see is the hidden world of engineering that makes it all possible. Behind every race car lies a mix of physics, mechanics, and innovation so advanced it feels almost futuristic.

A key factor in an F1 car's performance is aerodynamics. Every curve, wing, and fin on the car is carefully crafted to manage airflow and generate downforce—the invisible force that presses the car to the track. This downforce allows the cars to zoom through corners at speeds far beyond what ordinary vehicles could handle, almost “glued” to the asphalt. In fact, the aerodynamic grip is so strong that an F1 car could theoretically drive upside down in a tunnel.

The heart of the car is a 1.6L V6 turbo-hybrid engines producing over 1000 horsepower. Energy systems capture heat and braking energy, recycling it into bursts of speed. These engines are the most fuel-efficient in the world. The materials used in F1 cars also play a vital role. The chassis is built from carbon fibre composites, which provide incredible strength while being light enough to improve speed and handling. Even small parts like suspension components are crafted from aerospace-grade materials to maximize durability without adding unnecessary weight.

Then comes the human factor, with 20+ controls on the steering wheel, drivers adjust settings in real time—fuel mix, brake balance, hybrid power—while racing at 300 km/h. The driver's heartbeat can spike over 180 beats per minute, matching the intensity of a full workout while navigating hairpin curves and defending against rivals at impossible speeds. Yet, amidst the chaos, every gear shift, corner entry, and braking point is calculated with precision. In those moments, the driver defines what it means to be at the limit—not just of machinery, but of human focus and endurance. Formula 1 is not just racing. It's a live experiment in physics and engineering, shaping the future of the cars we drive every day.

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## **Industry 5.0 : A New Era of Collaboration Between Humans and Machines**

Industry 4.0 marked a significant shift in manufacturing, characterized by automation, artificial intelligence, and the Internet of Things. However, the true essence of this industrial evolution isn't just about machines or data—it's about blending technology with human creativity and intelligence to create smarter, more efficient, and more enjoyable workplaces. Building on this, Industry 5.0 brings people back to the center by emphasizing human-machine collaboration, often through cobots (collaborative robots), ensuring that technology serves to enhance human potential rather than replace it.

These cobots are made to assist humans by performing physically demanding, hazardous, or repetitive tasks. This enables people to focus on tasks that require emotional intelligence, creativity, and problem-solving skills. As a result, jobs become safer and more fulfilling, and productivity and accuracy increase. An essential component of Industry 5.0 is sustainability. By using resources responsibly, reducing waste, and following to the principles of the circular economy, it encourages industries to go green.

By addressing significant environmental problems like resource scarcity and climate change, this strategy makes eco-friendly manufacturing more of a requirement than a choice. Businesses can continue to expand while minimizing their environmental impact thanks to Industry 5.0. Lastly, Industry 5.0 focus on ethics and social values aggressively by insisting on transparency, the right use of artificial intelligence, and ongoing learning and training for the workforce.

As technology advances, the employees must be supplied with the proper skills to adjust and prosper. Industry 5.0 insists on a future where technological advancement is associated with the wellbeing of humans, the preservation of the environment, and economic growth that is inclusive. By filling the space between innovation and social responsibility, it try to make an industrial future not only smarter, but also fairer and more sustainable for all.

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## Stairs to Sorrow

India is the land where girls are compared to almighty,  
Yet, they are played in the hands of miscellaneous society.  
Girls give birth to next generation,  
STOP SOLVING THEM...they are not a maths equation.

Girls are born great,  
But, society use them cleverly as their bait.  
Society always prove them wrong,  
Alas! They have forgotten that girls are born strong.

Girls are humane,  
Hence, they are the best at hiding their pain.  
Our evil society use to play with their mind,  
Because they are very kind.

Girls are being body-shamed and raped,  
Thence, their mouths are being taped.  
Yet, they suffer the pain of domestic violence,  
Alack! They spend their whole life struck in aloud silence.

**Manveer Kaur**  
**B.Tech CSE**

## Wilted Bloom

From the garden of my broken chest,  
Bloom flowers born of endless unrest.  
Roots entwine my ribs in pain,  
Feeding on sorrow, watered by rain.

Petals blackened by dreams decayed,  
In the soil of loss, my heart is laid.  
Each thorn that pierces, softly cries,  
Of love that lived, and slowly dies.

My hands still reach for what is gone,  
For wilted beauty, once brightly shone.  
But even ruin learns to grow—  
In death's embrace, the wild winds blow.

So let these flowers eat my scars,  
And paint my bones beneath the stars.  
For from my ruin, life shall start—  
A dying bloom, a living heart.



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# **The Creative Revolution: How Unleashing Your Inner Artist Transforms Life into Pure Magic**

## **The Spark That Ignites Everything**

Creativity isn't just for artists in berets or inventors in laboratories—it's the life-changing superpower hiding inside every single one of us. Think of creativity as your personal magic wand, capable of transforming mundane Monday mornings into thrilling adventures and turning everyday challenges into exciting puzzles waiting to be solved. When we embrace our creative nature, we don't just make art; we make life itself a masterpiece.

## **Your Daily Dose of Creative Medicine**

**Mental Health Miracle Worker:** Science has proven that creativity acts like natural medicine for the mind. Just 10 minutes of creative activity can reduce cortisol levels, boost happiness hormones, and create that magical "flow state" where time disappears and worries melt away. Whether you're doodling during a meeting or rearranging your bookshelf by color, you're actually rewiring your brain for joy.

**The Stress-Busting Secret Weapon:** When life throws curveballs, creativity catches them and turns them into opportunities. Instead of seeing problems as roadblocks, creative minds see them as exciting puzzles with infinite solutions. This shift in perspective doesn't just solve problems—it makes the entire journey more enjoyable.

## **Transform Your World in 15 Simple Ways**

**Make your space extraordinary:** Add unexpected colors, textures, or quirky decorations that make you smile every time you walk in.

**Become an explorer:** Try that new restaurant, take a different route home, or visit somewhere you've never been—new experiences supercharge creativity.

**Dream with purpose:** Spend 10 minutes gazing out the window, letting your mind wander freely.

**Experiment fearlessly:** Try something completely new or do something familiar in a brand new way.

**Slow down to speed up:** Savor the details around you—the way light hits your coffee cup or how music makes you feel.

## **Your Creative Life Starts Now**

The most remarkable truth about creativity? You already have everything you need. You don't need expensive supplies, formal training, or permission from anyone. You just need to give yourself the gift of creative expression. Start small: keep a journal, take photos of interesting shadows, hum a tune while cooking, or arrange your books in rainbow order. Each creative act, no matter how tiny, adds color to the canvas of your life. Remember Einstein's wisdom: "Creativity is intelligence having fun". When you let your intelligence play, magic happens. Life stops being something that happens TO you and becomes something you actively create, moment by beautiful moment. Your creative revolution begins with a single brushstroke, a single word, a single moment of saying "yes" to the extraordinary life waiting inside you.

*Life isn't meant to be lived in black and white—grab your colors and start painting your masterpiece today.*

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## **Sustainable Energy Solutions**

The growing global demand for energy and the urgent need to combat climate change have placed sustainable energy solutions at the forefront of innovation. Renewable sources such as solar, wind, hydro, and biomass are now critical components of the global energy mix. These sources offer clean, abundant, and increasingly affordable alternatives to fossil fuels, reducing greenhouse gas emissions and dependence on non-renewable resources. Technological advancements are making sustainable energy more efficient and accessible. Smart grids, energy storage systems, and decentralized microgrids are enabling better energy management and reliability. Countries around the world are investing heavily in research and policy frameworks to promote green energy transitions and meet carbon neutrality goals. However, challenges such as high initial costs, intermittent energy generation, and inadequate infrastructure continue to hinder large-scale adoption. To overcome these, collaboration between governments, private sectors, and communities is essential. Education and public awareness also play a vital role in promoting responsible energy consumption and environmental stewardship. Sustainable energy is not just an environmental necessity but also an economic opportunity. It fosters job creation, technological innovation, and long-term energy security. The shift toward renewable energy marks a pivotal moment for humanity—a move toward a cleaner, healthier, and more sustainable future.

**Sahil**  
**7<sup>th</sup>-Sem-ECE**

## **Green Technology: Paving the Way for a Sustainable Future**

As the world faces increasing environmental challenges, green technology has emerged as a vital solution for promoting sustainability while supporting economic and technological growth. Green technology encompasses innovations that minimize environmental impact, conserve natural resources, and reduce energy consumption, making it an essential driver for a sustainable future. Key areas of green technology include renewable energy systems such as solar, wind, and bioenergy, which provide cleaner alternatives to fossil fuels. Smart grids and energy-efficient infrastructure optimize energy distribution and reduce wastage. In the transportation sector, electric and hybrid vehicles are revolutionizing mobility by lowering greenhouse gas emissions. Additionally, green manufacturing processes focus on waste reduction, material recycling, and sustainable production techniques. The integration of Artificial Intelligence (AI) and the Internet of Things (IoT) further enhances green technology by enabling real-time monitoring and predictive analysis of environmental conditions. For instance, smart sensors can optimize energy use in buildings, track air quality, and manage water resources efficiently. These innovations not only protect the environment but also increase operational efficiency across industries. Adoption of green technology offers economic as well as ecological benefits. It creates opportunities for sustainable jobs, encourages innovation, and fosters responsible consumption and production practices. Governments, industries, and educational institutions are increasingly investing in green research and development, recognizing its critical role in mitigating climate change and ensuring resource sustainability. However, successful implementation requires a collaborative approach. Policies supporting renewable energy, incentives for eco-friendly practices, and public awareness campaigns are essential for scaling green technology solutions. By combining technological innovation with ethical responsibility, societies can achieve a balance between economic development and environmental preservation.

In conclusion, green technology is not just a set of tools or methods—it represents a commitment to a sustainable and resilient future. By embracing eco-friendly innovations, we can create smarter, cleaner, and more efficient systems that protect our planet for generations to come.

**Neha**  
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## **Ethics and Humanities: Guiding Principles for a Responsible Future**

Ethics and humanities play a crucial role in shaping responsible, compassionate, and socially aware individuals. While technology and science drive innovation, it is ethical understanding and humanistic values that ensure these advancements benefit society responsibly. By integrating ethics and humanities into education, we encourage students and professionals to think critically, make informed decisions, and reflect on the broader impact of their actions. Ethics involves the study of moral principles and the discernment of right and wrong, while humanities explore human experiences, culture, and values through disciplines such as literature, philosophy, history, and arts. Together, they provide a framework for decision-making that goes beyond technical expertise, emphasizing empathy, fairness, and integrity. For instance, in fields like Artificial Intelligence or biotechnology, ethical considerations help prevent misuse of technology and ensure innovations align with societal well-being.

Humanities foster cultural awareness and empathy, enabling individuals to appreciate diversity, understand social contexts, and communicate effectively. By studying history, literature, or philosophy, learners develop a nuanced perspective on human behavior, which is essential for leadership, teamwork, and civic responsibility. Incorporating ethics and humanities into professional and academic environments cultivates well-rounded individuals who can navigate complex moral dilemmas and contribute positively to society. It reinforces the idea that technological and scientific progress must be guided by human values and ethical responsibility, creating a balanced approach to innovation and societal development.

In conclusion, ethics and humanities are not just academic subjects—they are the guiding principles for a responsible, thoughtful, and compassionate future. By emphasizing these disciplines, we prepare individuals to make decisions that are not only intelligent but also ethical, ensuring sustainable and inclusive progress in all aspects of life.

**Tejesh Kumar**  
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## **Success Doesn't Wear a Suit Anymore**

*Success is not in what you have, but who you become.” – Bo Bennett*

Success is often imagined as a formal suit, an air-conditioned office, and a laptop at meetings. Life after college is expected to follow a straight line: study hard, secure a job, earn well, and live comfortably. At first glance, it seems simple and obvious. However, over time, it becomes clear that dreams evolve, career paths twist, split, and sometimes disappear, only to reappear in unexpected forms. Success is not a straight road- it is a messy, beautiful maze that everyone navigates in their own way.

Observing students across different years highlights how perspectives on careers change. First- year students often enter college full of excitement, their energy untouched by experience. Families imagine the future their children will create, while students themselves aspire to achieve something meaningful. But as time passes, experiences shift expectations. Classes can be confusing, internships uninspiring, and encounters with new people may inspire exploration of unexpected interests. Some discover passions they never anticipated; others realize what they do not enjoy. Choosing a career is not a single decision, it is a series of discoveries.

Later, patterns begin to emerge. Some students secure placements and earn for the first time, while others build professional profiles while quietly doubting every step. Some launch start-ups or pursue opportunities abroad, while others remain unsure and that is perfectly acceptable. Success does not have a single definition. For some, it is a high-paying tech job; for others, it may be a handmade art business on Instagram, a podcast about mental health, or a digital content platform that inspires and supports others. Careers are increasingly chosen for meaning, passion, and personal freedom rather than stability alone.

Walk into any college today, and it is easy to see how diverse student pursuits have become. Beyond attending lectures and completing assignments, students are designing logos, editing reels, running thrift pages, teaching coding, freelancing for global clients, or writing poetry under midnight lamps. Side hustles are no longer just a plan B, they are real, growing careers. Some earn through Canva designs or YouTube channels, while others build start-ups from their hostels. Many are quietly figuring themselves out, asking questions that no syllabus ever covered: What excites me beyond mark sheets and expectations? What problems do I truly want to solve?

While previous generations often chose stability and structure, today's students frequently prioritize curiosity and creativity. It is increasingly common to meet someone who is a biotechnology major by day and a digital marketer by night. Students are combining degrees with portfolios, internships with passion projects, and career aspirations with mental health awareness. This is not restlessness it is a deliberate response to the realities of burnout. Witnessing people working jobs they do not love has inspired a generation to seek fulfilment on their own terms.

This generation is quietly bold. Careers are no longer something to wait for they are actively built, one step at a time. From graphic designers to community builders, AI ethicists to meme marketers, new roles are emerging faster than textbooks can update. Even the concept of a gap year has evolved; it is no longer a pause but a pivot. Some students take time off not to wander, but to realign, upskill, and breathe. This is not failure, it is maturity.

Across cities and small towns alike, students are proving that impact is not location-bound. With little more than Wi-Fi and determination, they are starting NGOs, building social enterprises, or mentoring school children online. Digital platforms are being used not merely to perform, but to build, tell stories, spread awareness, and launch careers. Expectations are high, yet students are quietly reshaping them. Friends drop out and still succeed; toppers burn out while quiet ones rise. The world is not black and white it is evolving, and students are learning to adapt.

The definition of success itself is shifting. According to a 2024 Deloitte report, more than 60% of Gen Z prioritize purpose, flexibility, and mental well-being over conventional career stability. Careers are becoming flexible, creative, and deeply personal. Students are asking: What brings me joy? What are my strengths? Which problems should I focus on solving? The answers are unique to each individual, and the process of discovering them is an essential part of building a career.

Periods of doubt are inevitable. Students often question whether they are doing enough or if the “right path” will ever appear. Yet, there is no single correct route. Some excel early, others later. Some take detours, some forge entirely new paths. Careers are no longer straight ladders they resemble constellations, with points of experience, passion, failure, and learning connecting in distinctive ways.

Ultimately, a career is not merely about securing a job. It is about growth, development, and the process of becoming. Every action contributes to shaping the person one aspires to be. As James Clear notes, *“Every action you take is a vote for the type of person you wish to become.”* Success is no longer defined by appearances, salaries, or titles it is a quiet evolution, a process of becoming. Perhaps, this is the true revolution: building a career not just to impress the world, but to express oneself within it.

**Muskan Kumari**  
**IT department**

*Building Careers.  
Transforming Lives.*



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