

JAN-JUNE 2022



Established in 2012 under the Chandigarh Educational Society, CEC Jhanjeri has emerged as a symbol of academic excellence in India. Known for its outstanding research and teaching standards, the college boasts a highly qualified faculty and a dynamic, innovative learning atmosphere. Operated and managed by the Chandigarh Educational Society, CEC Jhanjeri and its affiliated institutions are committed to providing quality higher education at affordable costs.



CEC Jhanjeri is committed to academic excellence, affordability, and holistic student development, making it a preferred choice for students nationwide.

S. Rashpal Singh Dhaliwal (President)



With great excitement, I welcome you to the newest edition of our newsletter! As we mapped out our strategic vision, one thing became crystal clear—strong, meaningful communication within our community is key.

This newsletter is more than just a bulletin—it's a celebration of our students' incredible milestones and the dynamic life pulsing through our campus. At CEC, we take pride in being more than an institution—we're a launchpad for futures, a pillar of support for families, and a beacon for communities.

So, dive in and discover the heart, hustle, and harmony that define CEC. This is your window into our shared journey of growth, excellence, and impact.

Mr. Arshdeep Dhaliwal (Managing Director)



With the launch of our newsletter, I'm thrilled to see our shared vision for stronger internal communication come to life. Each story reflects the power of teamwork, inclusivity, and our impact on the Indian education landscape. Our faculty and students are the heartbeat of our journey, and this edition proudly celebrates their achievements. Here's to a year filled with momentum, fresh ideas, and unwavering excellence!

Prof (Dr.) Anish Gupta (Director Engineering)



It's a true privilege to be part of an institution where excellence isn't just a goal—it's a way of life. At CEC Jhanjeri, we are redefining education by blending academic brilliance with real-world readiness. Our mission is to ignite minds, shape futures, and nurture individuals who thrive not just in their careers, but as responsible citizens of the world. With a strong focus on innovation, hands-on learning, and industry-relevant skills, we're equipping our students to lead with confidence and vision. As we continue to rise as a beacon of learning in the region, our commitment remains unwavering: to break barriers, inspire growth, and build a brighter tomorrow for all.

Dr. Rini Saxena

(HOD CSE)



As the Chair of the Computer Science and Engineering Department, it's a true privilege to connect with each of you. We're not just stepping into classrooms—we're stepping into a world of boundless innovation and discovery. This journey we're on isn't just about assignments and exams; it's about igniting curiosity, building resilience, and nurturing a mindset that thrives on lifelong learning.

Together, let's push boundaries, question the norm, and turn bold ideas into real impact. Every challenge is a chance to grow, and every success, a step toward something greater. You hold immense potential, and I can't wait to see how you harness it to shape the future of tech.

Here's to exploring, evolving, and excelling—together. Wishing you a journey filled with inspiration, growth, and achievement in all you pursue.

ABOUT THE DEPARTMENT

The B.Tech. Computer Science & Engineering programme at Chandigarh Engineering Institutions (CEC), Jhanjeri, one of the top CSE colleges in Punjab, will give you the greatest theoretical and practical abilities necessary to develop original solutions to both ongoing and new IT-related challenges. Our course offers a mix of theoretical and practical instruction, along with access to state-of-the-art labs. Students will gain the crucial hands-on experience that top employers want thanks to our 360° placement training, industry-academia connections, and knowledgeable instructors.

ABOUT THE COURSES & CARRER PROSPECTS

The Department of Computer Science and Engineering (CSE) stands as a beacon of excellence, committed to delivering premier education while spearheading groundbreaking research and innovation. With a distinguished faculty renowned for their expertise, the department thrives not only in academia but also in pioneering advancements through nationally funded research initiatives, including AICTE-backed programs.

Fostering a dynamic industry-academia synergy, the department has forged strategic alliances and formalized MOUs with leading technology giants. It regularly hosts symposiums, exhibitions, conferences, and workshops, enriching both students and faculty across various institutions. The department takes immense pride in its illustrious alumni, who have ascended to prominent roles in elite Indian and global IT enterprises, further cementing its prestige.

Dedicated to an Education, Research, Development, and Innovation (ERDI) Strategy, the department seamlessly integrates theoretical knowledge with hands-on experience. State-of-the-art laboratories, coupled with an esteemed faculty specializing in diverse AI and data science domains, foster an ecosystem conducive to technological breakthroughs and entrepreneurship. As transdisciplinary frontiers expand, the department remains unwavering in its mission to drive progress, shaping the next generation of AI and data science pioneers.

Department of Computer Science and Engineering

VISION

To emerge as Institution of Technical excellence imparting professional education for sustainable development of society.

MISSION

- To educate the students in the field of Computer-Science with ever-changing technologies and skills.
- To enable the students in solving real-time problems and make use of new technologies.
- To have industry collaboration and interaction with professional societies for continuous development.
- To help students in becoming successful entrepreneurs.

Programme Educational Objectives (PEO):

Students of Computer Science & Engineering shall:

1. Become competent Computer Professionals.
2. Have abilities to analyze the requirements of software and provide solutions through efficient product designs.
3. Have a successful career and meet the requirements of Indian and other Multi-National Companies.
4. Have exposure to advanced technologies, technical skills, and opportunities to work as team members on multidisciplinary projects.

Students of Computer Science & Engineering will be able to do:

PSO1: To use principles of Computer Science & Engineering (such as software engineering, computer networks, data structures & computer programming high level languages) for developing software solutions.

PSO2: To clearly understand the concept of programming languages, computer architecture and their applications in different field of technologies to develop cost-effective solutions in the area of computer science by the use of various methodological algorithms and different tools.

PROGRAMME OUTCOMES (PO)

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

RANK/AWARD	COMPETITION
1st	Competition of ISIE-Indian Karting Race 2022 at Galgotia University, Greater Noida, and Future Award with Cash prize amount ₹10000
4th	Competition of Thomso 22 at IIT Roorkee.
1st	Competition of AAZADI ka Amrit mohatsav at Chandigarh College of Engineering and Technology, Chandigarh.
1st	Engineers day 2022 at Chandigarh Engineering College, Jhanjeri.
3rd	Competition of Technical Quiz on Engineers day 2022.
3 badges & 1 trophy	Competition of Microsoft Azure learning 2022
Gold Position	Competition of 4×100 Relay race at Chandigarh Engineering College, Jhanjeri.
2nd	Competition of Tech linguistic quiz –java at Chandigarh Engineering College, Jhanjeri.
3rd	Public Speaking competition at Chandigarh Engineering College, Jhanjeri.

FACULTY	PUBLICATION
Dr. Rini Saxena	"AN EFFICIENT ARTIFICIAL INTELLIGENCE MODEL TO PREDICT THE VALUES OF CRYPTOCURRENCIES",MATHEMATICAL STATISTICIAN AND ENGINEERING APPLICATIONS,SCOPUS VOL.71 NO.4(2022) ISSN NO. 2094-0343.
Ms. Rohini Mahajan	"A STUDY ON A TENSORFLOW/KERAS-BASED REAL-TIME FACE MASK IDENTIFICATION TECHNIQUE BASED ON ARTIFICIAL INTELLIGENCE ",INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS, IJCRT, ISSN NO 2320-2882.
Ms. Deeksha Verma	"DRIVER DROWSINESS DETECTION SYSTEM ", INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY,VOLUME 11, ISSN NO. 2319-8753
Ms. Divyanshi Chhabra	"AN ESSEMBLE BASED MACHINE LEARNING APPROACH FOR PREDICTING DIABETICS", INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS (IETE),SCOPUS.
Ms. Sumanpreet Kaur	"FACE RECOGNITION SYSTEM, INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS, IJCRT,ISSN NO 2320-2882.
Ms. Kiran Bala	"CREDIT CARD FRAUD DETECTION AND CLASSIFICATION BY DEEP LEARNING AND MACHINE LEARNING", GLOBAL JOURNAL OF ENGINEERING AND TECHNOLOGY ADVANCES,GJETA.
Ms. Kiran Bala	"MATHEMATICAL MODELING OF BIOLOGICAL SYSTEM" INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS, IJCRT, ISSN NO. 2320-2882.
Ms. Rashmi Choudhary	"VIRTUAL PERSONAL ASSISTANT USING ARTIFICIAL INTELLIGENCE",WORLD JOURNAL OF ADVANCED ENGINEERING & TECHNOLOGY SERVICES.
Ms. Meenakshi Garg	"EXPLORING ON MACHINE LEARNING AND ITS PROCESS AND ITS GROWTH",IJIRCE, ISSN NO. 23209798

Webinar on “Writing research proposal”

The Department of Computer Science & Engineering department organized a Webinar on “writing research proposal for seeking funding, grants from Government agencies on 31st Jan 2022 by Anusandhan University, Bhubaneswar, Odisha. Dr. Anant Ram, Advisor R&D and accreditation was the Resource person.

Webinar on” Introduction to Web 3.0 Block chain, DeFi, NFT and More

I-Technocrats Club of CSE Dept organized a webinar on “Introduction to Web 3.0: Block chain, DeFi, NFT and More “on 4th February 2022 by Upside.gg & Mr. Abhijit Roy, Block chain Expert & Senior Contract Engineer was the Resource person.

E- FDP on IOT & AIML:

Chandigarh Engineering College organized a FDP on “IOT & AIML” under the iTechnocrats club of Computer Science & Engineering department. This FDP was conducted from 01st Mar, 2022-5th Apr 2022 and the speakers were Dr. Vinay Arora, Associate Professor, Thapar University Patiala & Dr. Shruti Wadhwa, Director, Hash logic infosec Pvt. LTD., Ex NITTR Chandigarh Training and marketing head & Mr. Devrat Rana, Data Scientist Lead, Artificial Intelligence and Expandable AI at Bebo Technologies Sector 26 Chandigarh Dr. Kuldeep Singh, Associate Professor, Malaviya National Institute of Technology, Jaipur (ONLINE SESSION) Ms. Megha Rohila, Software Developer at Amdocs, Ex-Wipro software Developer (ONLINE SESSION).

INDUSTRIAL VISIT (s)

Industrial Visit to Solitaire Infosys Pvt. Ltd, Mohali

Industrial Visits: A Gateway to Practical Learning

The Department of Computer Science Engineering orchestrated two insightful industrial visits to enhance students' practical acumen and industry exposure.

On 11th Mar 2022, students visited Solitaire Infosys Pvt. Ltd., Mohali, where they delved into the intricate workings of the company. This immersive experience enriched their understanding of UI/UX design, mobile and web application development, enterprise solutions, and digital marketing. Additionally, they gained crucial insights into client interactions, project handling, and internship opportunities, fostering a bridge between academic learning and real-world implementation.

Following this, on 15th Mar 2022, another visit was arranged to Meander Software, Mohali. This engagement underscored the significance of long-term industry relationships and provided students with an in-depth perspective on technological advancements and professional workflows. Such excursions serve as a catalyst for integrating theoretical knowledge with practical application, equipping students with industry-relevant skills and a competitive edge.

Engineering College



HIGHLIGHTS:

More than 50 companies visited for recruitment. More than 70% students got placed in the companies like ZOPSMART, DELL Technology, ISCHOOL CONNECT, AU Small Finance Bank, ACCENTURE, ECOLAB DIGITAL CENTRE PVT. LTD. Highest package offered to Ankur Dhawan(10 LPA) by ZOP SMART & to Rajesh Kumar(10 LPA) by ISCHOOL, Bharti.



Virtual Reality and Augmented Reality

Recent breakthroughs in high-speed communication and compact mobile computing have fueled an insatiable demand for immersive human-digital interactions, surpassing the constraints of conventional flat-panel displays. Augmented Reality (AR) and Virtual Reality (VR) have emerged as the vanguard of next-generation interfaces, offering immersive 3D experiences. Despite their potential, these cutting-edge technologies have yet to gain widespread consumer adoption.

AR and VR boast transformative applications across various domains, including education, healthcare, engineering, and gaming. While VR has found a stronghold in gaming, AR briefly surged in popularity with mobile applications. The true challenge lies in seamlessly integrating these technologies into daily life. VR delivers a fully immersive digital realm, whereas AR harmonizes digital elements with the physical world, enhancing real-world interactions through transparent overlays.

However, both technologies grapple with critical challenges such as field of view (FoV), eye box optimization, angular resolution, dynamic range, and accurate depth perception. Additionally, ergonomic concerns demand that AR and VR headsets be lightweight and compact, ideally resembling convention

Financial incentives further bolster the field's allure—AR engineers command salaries exceeding six lakh per annum, making it a lucrative career prospect. Entering the industry requires minimal training, as basic programming skills, coupled with a passion for visualization, are often sufficient to secure employment. With millions of AR and VR devices sold annually, it is only a matter of time before these technologies become an integral part of our daily existence.

— Sahil Dhiman (CSE)



Kritika

ZS Associates Private Limited

“I was concerned about my future when I first started at CEC. We had so many opportunities for personal and academic growth over the course of the four years that I felt confident. Our knowledge, talents, and abilities are to be improved by the institution. Due in large part to my faculty member, these years at CEC have been the best in terms of learning, experience, and exposure to subjects related to my career. Finally, I'd want to express my gratitude to the college's Training & Placement Department for their ongoing efforts to place me with a reputable IT company. Our college will reach unprecedented heights as a result of our endeavor”.



Ankur Dhawan

MakeMyTrip.com

“CEC is much more than merely an "Institution"... Actually, it refers to a "Culture"... excellence, empowerment, and enrichment cultures I felt fortunate to be a part of CEC. My personality has changed as a result of education, and my future goals have become more clear. I am appreciative of the Institute for providing me with direction and inspiration to help me reach my objectives”



Abhishek Singh
Nihilent Technology Limited

“After many formative years of schooling, a student's time in college is a vital stage in their academic path. While pursuing my B.TECH, I appreciated the experience of attending a school that placed a strong emphasis on developing students' general skills while also enhancing their job prospects. The teachers are smart, passionate, and really caring individuals who are committed experts in their fields. I will always be appreciative to CEC for delivering the ideal balance of academics, industry exposure, attitude, and leadership for my multidimensional learning”.



FROM THE EDITORIAL ...

We are thrilled to unveil the latest edition of TECHTIMES, the biannual newsletter of Chandigarh Engineering College's Computer Science and Engineering (CSE) Department. This publication captures the department's academic and extracurricular milestones, fostering a vibrant sense of community.

In this edition, we spotlight notable achievements, faculty and student contributions, and comprehensive training and placement statistics of the latest graduating cohort. The Student's Corner further celebrates creativity and intellectual prowess.

Our heartfelt gratitude goes to the dedicated faculty and students whose steadfast support has brought this edition to life. TECHTIMES serves as a vital conduit, connecting students, alumni, faculty, parents, industry experts, and stakeholders—offering valuable insights, campus highlights, and a platform for fresh perspectives.

We invite your constructive feedback to refine future editions. Thank you for being an integral part of TECHTIMES!

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