2025

INDRAPRASTHA INSTITUTE *of*
INFORMATION TECHNOLOGY **DELHI**

HUMAN CENTERED DESIGN

PLACEMENT BROCHURE

Department of Human Centered Design, IIIT Delhi

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About

B.Tech in Computer Science and Design

The **Department of Human-Centred Design (HCD)** understands the significance of user experience in today's technology-driven world. As the importance of HCI, Interaction Design, and Design Thinking continues to grow, the program equips students with the necessary knowledge and skills to create impactful IT-based products and services. With a strong focus on interdisciplinary learning, our **B.Tech. in Computer Science and Design** (CSD) and **PhD** programs bridge the gap between computing and design, helping students become proficient in developing efficient human-centred software solutions.

Through a holistic curriculum, this program empower students to tackle real-world problems by combining design thinking and programming skills, creating **innovation engineers who can set-up and lead design teams**. CSD graduates are well-prepared for diverse industry careers, including XR/VR/AR Design, Human Interactive Systems, Prototyping, UI-UX, Product Management, Visual Design, Tangible User Interfaces, Machine Learning, Animation and Film Design, and Audio Visuals Analysis.

Message from the

Head of Department

Dr. Anmol Srivastava

Assistant Professor and Head (HoD),
Department of Human-Centered Design,
IIIT Delhi

As the Head of the Human Centered Design Department at IIIT Delhi, I am reaching out to express our enthusiasm about the possibility of collaborating with your esteemed company for our upcoming placement season.

At IIIT Delhi, we take immense pride in nurturing top-tier talent in the field of human-centered design. Our students undergo a rigorous curriculum that equips them with a deep understanding of user needs, a strong foundation in design principles, and proficiency in cutting-edge design tools and methodologies.

BTech in CSD program is committed to nurturing the next generation of design leaders who are not only equipped with technical expertise but also possess a deep understanding of human needs, behaviors, and aspirations. Our rigorous curriculum, hands-on projects, and industry collaborations prepare students to tackle complex design challenges in diverse domains ranging from user experience (UX) design to interaction design, service design, and beyond.

Our students are well-prepared to take on challenges in various domains, including user experience design, interaction design, service design, and more.

They bring a unique blend of creativity, technical expertise, and empathy to the table, making them valuable assets for any organization looking to innovate and create user-centric solutions.

We believe that a partnership with your company would not only provide our students with valuable career opportunities but also offer your organization access to some of the brightest minds in the field of human-centered design.

I invite you to explore the possibility of recruiting from our talented pool of students during the upcoming placement season. Our dedicated placement cell is committed to facilitating a seamless recruitment process and ensuring that both our students and your company find the perfect fit.

Thank you for considering IIIT Delhi as a potential source of talent for your organization. I look forward to the possibility of working together to create mutually beneficial opportunities for our students and your company.

Faculty

Dr. Anmol Srivastava
Assistant Professor
PhD, IIT Guwahati

Dr. Rajiv Ratn Shah
Associate Professor
PhD, National University of Singapore

Aman Samuel
Visiting Faculty
MBA (2016), University of Madras, MCA (2004), IGNOU

Dr. Richa Gupta
Assistant Professor
PhD (2020), IIT, Delhi

Dr. Jainendra Shukla
Assistant Professor
PhD, Universitat Rovira i Virgili (URV), Spain

Anoop Ratn
Visiting Faculty
MFA (2020), Teerthanker Mahaveer University

Dr. Vinish Kathuria
Visiting Faculty
PhD, Indian Institute of Management, Lucknow

Dr. Arun Balaji Buduru
Associate Professor
PhD (2016), Arizona State University

Dr. Kalpana Shankhwar
Assistant Professor
PhD, National Taiwan University

Dr. Sonal Keshwani
Visiting Faculty
PhD, Indian Institute of Science, Bangalore

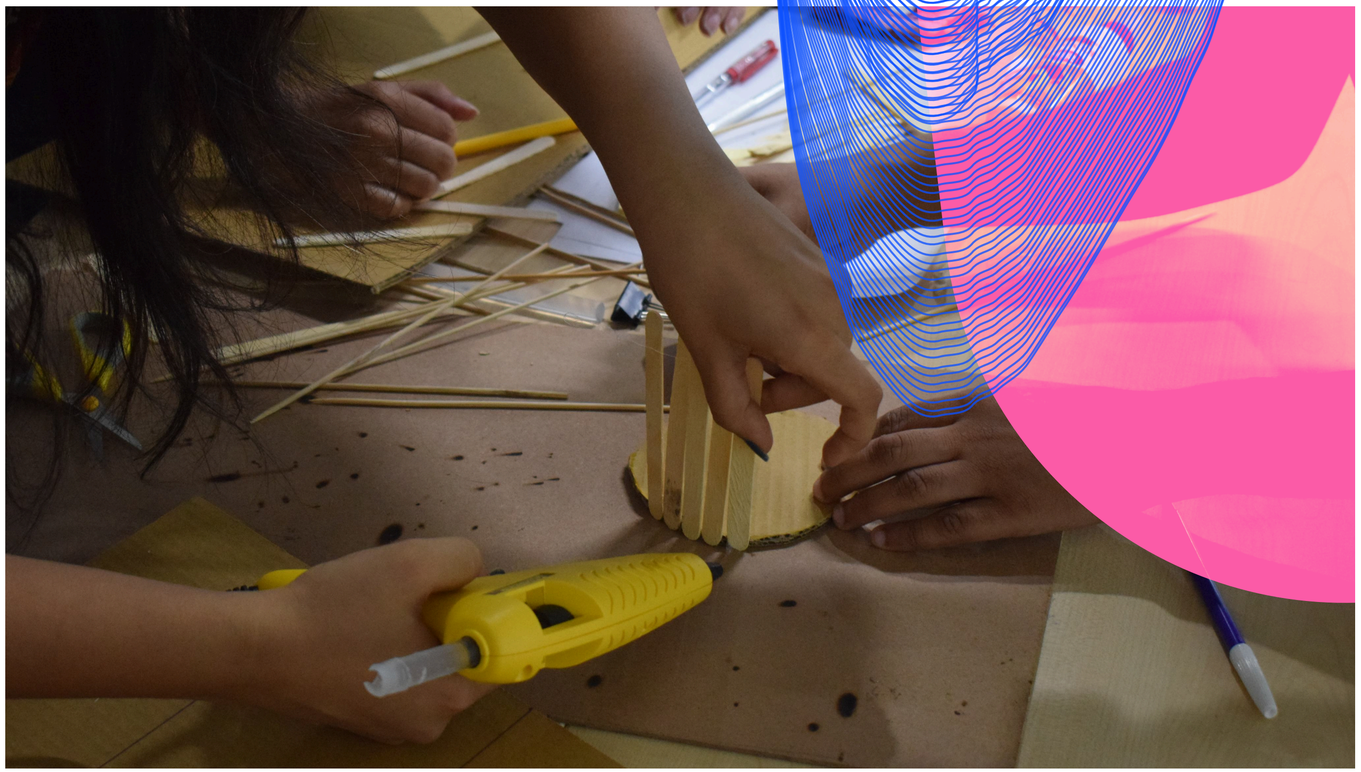
Dr. Angshu Das
Professor of Practice
BTech, IIT Kanpur

Dr. Pragma Kar
Assistant Professor
Ph.D. (2023), Jadavpur University

Curriculum

B.Tech in Computer Science and Design

Designed for the digital age, this program equips graduates with a strong foundation in computing and in-depth expertise in design methodologies and new media technologies. Our **interdisciplinary curriculum** includes core courses in Computer Science and Design and a range of electives from both disciplines, allowing students to tailor their education to their interests. The core courses are spread across the first 4 semesters, whereafter a student is free to choose electives and shape their undergraduate education.



- Technical core courses
- Design core courses

Semester **One**

- Introduction to HCI
- Introduction to Programming
- Digital Circuits
- Linear Algebra
- Communication Skills

Semester **Two**

- Design Drawing and Visualisation
- Data Structures and Algorithms
- Visual Design and Communication
- Computer Organisation
- Probability and Statistics

Semester **Three**

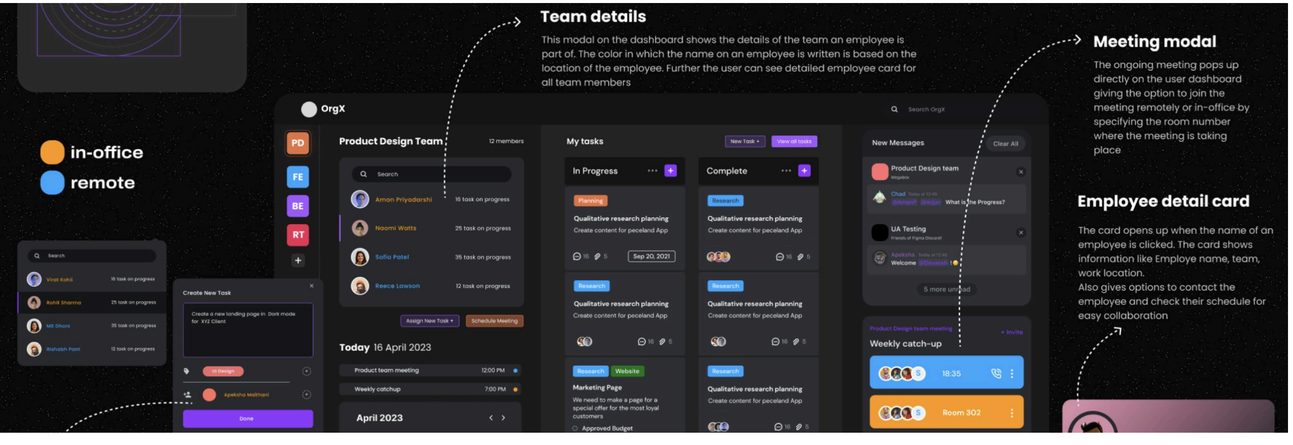
- Design Processes and Perspectives
- Advanced Programming
- Research Methods in Design
- Operating Systems
- Discrete Math / Calculus

Semester **Four**

- Design of Interactive Systems
- Prototyping Interactive Systems
- Analysis and Design of Algorithms
- Fundamentals of DBMS
- *Elective

Students work in

Interaction Design



Electives

Interaction Design Perspective Methods

Tangible User Interfaces

User Experience Design for XR

Design for AI Driven Products

Cognition and Information Processing in Design

Human Computer Interaction

Human Centered AI

Inclusive Design, Universal Design and Accessibility

Design Futures

Wearable Applications, Research, Devices, Interactions

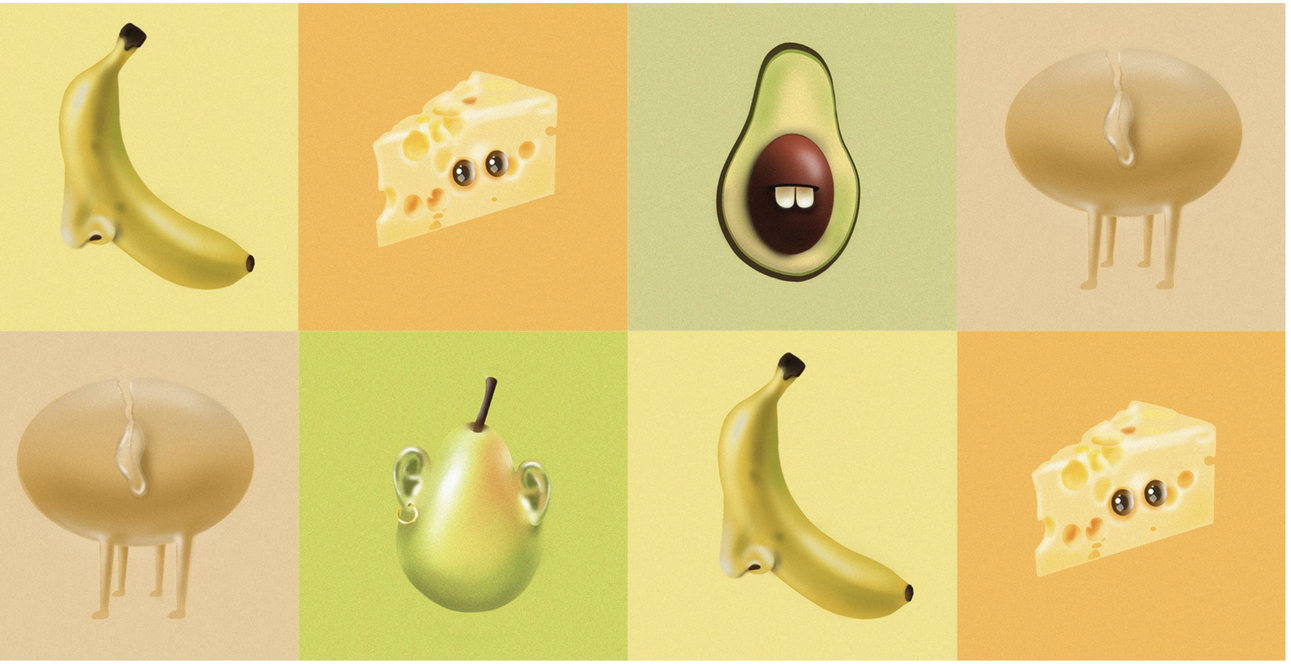
Advanced Topics in Human Centered Computing

Game Design and Development

Ergonomics and Human Factors for Design

Students work in

Visual Communication



Electives

Narratives in Visual Communication

3D Creation for Extend Reality (XR)

Motion Design and Graphics

Students work in

Animation and Filmmaking

Electives

Fundamentals of Video

Fundamentals of Audio

Introduction to 3D Production for Animation and Games

Introduction to 2D Animation

Introduction to Motion Graphics

Introduction to 3D Character Animation

Introduction to Animation and Graphics

Film Making and Radio Podcasting

Digital Audio and Video Production Workflow

Research Labs

Equipped with state-of-the-art tools and technology, the HCD labs facilitate working on complex real-world problems for undergraduate and postgraduate students, resulting in a plethora of papers, articles and posters being submitted in top conferences such as ACM CHI, IEEE, AAAI, ISS, TEI, India HCI, etc.

Accessibility and Inclusive Design Lab

Accessibility and Inclusive Design Lab aims to enable independent living and empower persons with special needs by making the world more inclusive and accessible.

Creative Interfaces Lab

Creative Interfaces Labs is a design research group at the intersection of HCI and various disciplines aiming to design, craft and evaluate interactive tools and experiences that augment human capabilities and imagination.

MIDAS Lab

MIDAS is a group of researchers at IIIT-Delhi who study, analyse, and build different multimedia systems for society leveraging multimodal information. MIDAS stands for Multimodal Digital Media Analysis Lab.

The Pervasive Sensing & Intelligent Assistive Systems Lab

Dynamic research space that facilitates the design and development of innovative assistive systems to promote smart living through pervasive sensing and ubiquitous computing techniques.

Human-Machine Interaction Lab

Human-Machine Interaction (HMI) lab aims to investigate novel interaction mechanisms to empower human-machine cooperation. The research at HMI lab lies at the intersection of Computer Science, Design, and Psychology.

Emerging Technology Integrated Design and Manufacturing

The ETiDM Lab focuses on exploring and investigating emerging technologies including Extended Reality (XR)/ (AR, VR, MR), Artificial Intelligence (AI), Digital Twin, Internet Of Things (IoT) and Haptic Technology.

Design Research and Human Factors Lab

Focuses on two areas, Design Research and Human Factors. DREAMRS lab is founded and led by Dr. Sonal Keshwani (Ph.D., IISc Bangalore).

Teaching Labs

Design and Innovation Lab

Design & Innovation Lab offers a unique opportunity for students for prototyping of their ideas and thereby inculcate the habit of innovation, which can be useful for society, community, research so as to improve quality of life human beings live and promoting Do-It-Yourself attitude.

Design Arcade

A hall with a large projection screen, motorized curtains, overhead lights, overhead projector, and outlets for a successful interactive design exhibition. The space could also be used during other design-related activities such as the TEDx conference and the 1Pixel Design Conference.

Audio and Visual Studio

The Audio-Visual Studio facilitates a comprehensive understanding of the modern media landscape through a mix of focused study and hands-on practice, enabling students to navigate the challenges of the new Digital Media era.

Gaming and Animation Lab

Gaming & Animation Lab works on gaming, animation, and related concerns such as Augmented Reality and Virtual Reality. It also offer several pioneering courses internally and externally on topics ranging from game design, 2D and 3D animation, and motion graphics.

Achievements

IIIT Delhi ranked #1 in Human-Computer Interaction in India

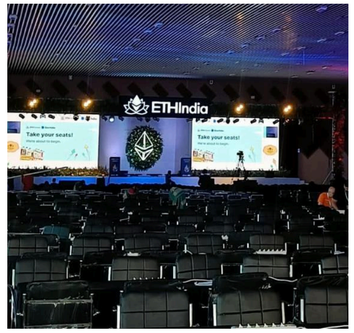
CS Rankings

#	Institution	Count	Faculty
1	IIIT Delhi	6.6	7
2	IIIT Bangalore	3.5	1
3	IIIT Hyderabad	2.2	4
4	BITS Pilani-Goa	2.1	3
5	IIT Kharagpur	1.6	3
6	IIT Delhi	1.3	1
6	IIT Ropar	1.3	1
8	IIT Patna	1.2	1
9	BITS Pilani	1.1	1

CS Rankings in HCI

Winners at the TBO.com Hackathon

Winners at Lollypop Deisgnathon



Winners at Ethereum Hackathon

Winners at Adobe's Designathon at IIT Delhi

Conferences

ACM Computer-Human Interaction

ACM Tangible and Embodied Interaction

ACM MobileHCI

Association for Advancement of AI

IEEE VR 2024

ACM Interactive Surfaces and Spaces

ACM User Interface Software and Technology

HCI International

India HCI

ACM SIGGRAPH

Competitions

Ethereum India Hackathon
$1700 Award Bounty

Adobe IIT Delhi Designathon 2024
Winners and Runners Up

RedBrick Hacks Ashoka University 2023
Winners and Runners Up

Winners and Runners Up
$2500 Award Bounty

TBO.com VoyageHacks
Winners

Microsoft Design Challenge 2022
Winner

ACM IMX Snap Creative Challenge
Winner

Events

1Pixel Design Conference - North India's Largest Student-led Design Conference

Since the past two years, the enthusiastic students of design and technology have come together to organise the 1Px DesCon. With an influx of attendees from schools, colleges and industry, along with speakers from the top-most organisations across the world have brought the conference to be held in high regard. The conference is completely student-led, from the merchandise, sponsorships, speakers to banners, caterers and accommodation.

The conference catered to over **300 participants**, attracting professionals, academicians, and students from more than **50 organizations** and **35 colleges** across the country. The diversity in attendees facilitated dynamic discussions on a wide range of topics, from cutting-edge industry trends to groundbreaking academic research.

Leading organizations and influencers including 10K Designers, Ansh Mehra and Atul Khola also rallied behind the event, extending support by sharing information within their communities.

Past Recruiters

Contact Us

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GM (Corporate Relations & Placements)

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