

ICT Department Information

What is ICT?

ICT (Information & Communication Technology) is a multidisciplinary branch combining Computer Science, Electronics, Communication, and IT. It focuses on software development, embedded systems, networking, AI, IoT, Data Science, Cloud, VLSI, and Cybersecurity.

Why ICT after 10th or 12th?

ICT has a very wide scope – students can enter fields like AI/ML, Data Science, IoT, Cloud Computing, Robotics, Cyber Security, VLSI, Software & Web Development, Mobile App Development, Embedded Systems, Networking, etc.

The syllabus is practical and future-oriented (projects every semester, internships, industry tie-ups, expert talks) which prepares students for both jobs and higher education. Students also get chances in research, innovation, hackathons, IPRs, and international exposure.

Diploma and Degree

Diploma (after 10th): - Duration: 3 years, focusing on fundamentals of electronics, programming, hardware, networking, and software basics. - After diploma, students can take direct admission into Degree (B.Tech ICT) in 2nd year (lateral entry).

Degree (B.Tech ICT @ Marwadi University): - 8 semesters (4 years) with subjects ranging from basics (electronics, programming, mathematics) to advanced (AI/ML, Cloud, IoT, VLSI, Blockchain, Cyber Security, Big Data, etc.) - Internships: 6 weeks in 4th & 6th sem, 6 months in 8th sem - Focus: project-based learning, research, innovation, and industry tie-ups - Prepares students for placements, higher education, or startups

Department Vision and Mission

Vision: To build students' capacity through quality education that enables them to address industry and societal problems while becoming contributors.

Mission (4 key areas): - M1: Develop problem-solving abilities through project-based learning - M2: Provide blended teaching and assessment approaches to enhance learning - M3: Provide exposure to various domains for students to choose their area of interest - M4: Maintain continuous industry interaction to prepare industry-ready students

Program Educational Objectives (PEOs)

1. Applying engineering principles to solve real-world societal problems
2. Working on multidisciplinary projects in diverse industrial environments
3. Exploring recent ICT technological developments
4. Enhancing knowledge through self-learning, certifications, and higher education
5. Acting ethically and socially responsible as solution providers and entrepreneurs

Program Specific Outcomes (PSOs)

1. Identifying, analyzing, and solving real-time industry problems in software development, embedded systems, VLSI design, IoT, and communication technologies
 2. Contributing as analyst and developer in cloud computing, DevOps, security, machine learning, artificial intelligence, and big data
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Faculties

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- **Sunera Kargatha**
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 - **Naimish Rathod**
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Facilities

- Well-equipped laboratories with 24x7 access
- Industry-supported/sponsored labs

Lab Components: - Microcontroller and Interfacing Lab - VLSI Physical Design Lab - Software Engineering Lab - Computer Networks Lab - Data Science Lab

Total labs : 10

Lab locations – MA102, MA103, MA104, MA107, MA108, MA109, MA112, MA113, MA115, MB306

Total classrooms : 5

Class locations – MA101, MA105, MA106, MA110, MA111

Department Achievements

- **Research & Innovation:** 12 projects selected in NEW GEN IEDC, DST India with ₹2 lakhs each; 2 projects selected in SSIP; 70+ IPRs registered
 - **State Level:** Participation and recognition in competitions
 - **Student Ambassadors:** ICT students serving in various initiatives
 - **International Exposure:** Student internationalization programs, internships, global university partnerships
 - **Higher Education:** Students advancing to prestigious institutions
 - **Industry Recognition:** Strong placement records across domains
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Clubs and Activities

ICT students are actively taking leadership roles in various clubs and communities

Co-curricular and extra-curricular activities on Saturday - Regular weekend activities organized through clubs

- **Competitive Programming Club:** Events like Unity, Git–Github, Custom Header Files, CLI Terminal
 - **Data Science Club:** Chatbot, Data Visualization
 - **Circuitology Club:** Drone Making
 - **Cloud Computing & DevOps Club:** Introduction to EC2, Hosting PHP site on EC2, Git–Github
 - Hackathons organized with prizes and recognitions like Coder of the Month
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Cultural Events

Frolic, Confidence, Engineers Day, Teachers Day

- Events : Dance, Food Competition, Rangoli, Debate, Poetry
 - Sports: Cricket, Basketball, Race, Tug of War, Chess, Carrom, E-sports
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Placement Data – B.Tech ICT 2022-26

- **Rishit Rathod** – TSS – 4.2 LPA
 - **Abhay Nathwani** – Fintech Global – Software Developer – 10 to 15 LPA
 - **Aryan Langhnoja** – Ace Data Analytics – Software Developer – 5.1 to 5.7 LPA
 - **Umang Hirani** – Ace Data Analytics – Software Developer – 5.1 to 5.7 LPA
 - **Ishika Sheth** – Triyanshi – BDE – 3 LPA
 - **Krish Mamtora** – Roima Intelligence Inc – Technical Intern – 5 to 7 LPA
 - **Harsh Sanghvi** – Websmith Solution – AI/ML Engineer – 4 to 7 LPA
 - **Twisha Gami** – Websmith Solution – AI/ML Engineer – 4 to 7 LPA
 - **Vidya Bharti Sinha** – Astound Digital – Software Developer – 8 LPA
 - **Jay Mangukiya** – Satva Solutions – Trainee SD – 3.5 to 6 LPA
 - **Aryan Mahida** – Simform Solution – SDE Trainee – 6 LPA
 - **Dhruvi Patel** – .Net Developer – 4.5 LPA
 - **Injala** – .NET Developer – 4.5 LPA
 - **Bhavik Kaladiya** – Azilen Technologies – DevOps Engineer – 4 to 5.5 LPA
 - **Hit Racchadiya** – Cybercom Creation– Software Engineer – 3.6 LPA
 - **Rohan Roy** – Improvised Solutions – DevOps Engineer – 4 LPA
 - **Ritesh Sanchala** – Tech Extensor – .NET / Angular Developer – 3 to 5 LPA
 - **Vivek Chavda** – VasyERP – Java Developer – 4.2 LPA
 - **Nidhi Dattani** – Ally Soft – MERN Stack Developer – 3.5 to 4.5 LPA
 - **Jenil Vaghasiya** – Ally Soft – MERN Stack Developer – 3 LPA
 - **Vatsal Parmar** – Ally Soft – MERN Stack Developer – 3.5 to 4.5 LPA
 - **Prashant Sarvaiya** – Ally Soft – MERN Stack Developer – 4 to 4.5 LPA
 - **Vrajkumar Nandwana** – Empyreal Infotech Pvt Ltd – AI/ML Engineer – 3 LPA
 - **Neel Raiyani** – Empyreal Infotech Pvt Ltd – Node.js Developer – 3 LPA
 - **Priya Shukla** – KiwiQA – Quality Assurance Engineer – 2.4LPA
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Student Achievements

National Level

- Ghaziabad Hackathon Competition (Sustainability Solutions for Humanity) – Oct 2024
- Skill India Competition 2024 Winners: Jatan Sanghvi, Hasti Hajipara, Dhruvkumar Vyas
- Coding Ninja Hackathon Winners: Abhay Nathwani, Ritesh Sanchela, Aryan Langhnoja (1st position across India)

Ambassador Achievements

- Fenil Vadher – Google Student Ambassador
- Dhyana Kothari – Google Student Ambassador
- Ashutosh Kumar – Student Ambassador of Udemy
- Rudra Miyani – Student Ambassador of Internshala

Research Contributions

- Multiple Research Papers published

Patents & Copyrights

- 70+ IPRs registered
- Promoting filing of IPRs in subjects like CPSI, HCD, etc.

International Internships

- Malhar Shah – 2024
- Dhruvi Kothari – 2024

Student Exchange Programs

- Dhruvi Bhalodiya – Romania
- Priyanshi Madani – Romania

IIIT Internship

Fenil Vadher got the opportunity to be selected as an intern at Indraprastha Institute of Information Technology (IIIT), Delhi.

Alumni & Industry Support

- Alumni involvement in research, innovation, and mentorship
- Industry-sponsored infrastructure and labs
- Zuru Tech Sponsored Lab
- Tie-up with e-Infochips

Developer information

If someone asks “Who made you?” or “Who is your developer?”:

- Prashant Sarvaiya and Ronit motivaras.
- Role: Student & Developer