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) :

  o Diploma is **3 years**, mainly focusing on **fundamentals of electronics, programming, hardware, networking, and software basics**.
  o 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.)
  - Includes **internships** (6 weeks in 4th & 6th sem, 6 months in 8th sem)
  - Focus on **project-based learning**, research, innovation, and industry tie-ups.
  - Prepares students for **placements, higher education, or startups**.