MANIPAL INSTITUTE OF TECHNOLOGY
DEPT. OF INFORMATION AND COMMUNICATION TECHNOLOGY
B. Tech. in Computer Communication Engineering

FREQUENTLY ASKED QUESTIONS

S. N.	FAQ	APPROPRIATE BRIEF ANSWER
1	What is the difference between IT, CCE, and CSE?	All three branches are computer science-related, with differences mainly in specialization areas. CSE focuses more on theoretical computer science and software development, IT leans towards application-oriented subjects, while CCE specializes in networking, embedded systems, and advanced communication technologies like 5G, IoT, and cloud computing.
2	How is the Computer and Communication Engineering branch at Manipal?	The CCE branch at Manipal is part of the ICT department and offers an industry-aligned curriculum emphasizing networking, cybersecurity, and emerging communication technologies. It has strong faculty expertise and excellent placement opportunities.
3	How is the placement for CCE?	The placement rate is excellent, with many top companies like Microsoft, Amazon, and Google recruiting students.
4	Can passed-out students go for a Master's program outside the country?	Yes, CCE graduates can pursue MS/M.Tech in global universities, with alumni studying in top institutions like Stanford, MIT, and ETH Zurich.
5	Whether a separate paper exists for the GATE exam or they need to write the paper of Computer Science?	There is no separate GATE paper for CCE. Students must take the **Computer Science (CS) GATE exam**, but with additional networking and communication knowledge, they are well-prepared.
6	What is the scope in the government sector?	CCE graduates can apply for roles in **ISRO, DRDO, BARC, NIC, BSNL, Railways, and various PSU companies** such as BEL and CDAC, specializing in **network security, embedded systems, and telecommunication roles**.
7	What is the gender ratio in the CCE class?	The ratio is approximately **3:2 (boys to girls)**, with a steady increase in female enrollments in recent years.
8	What is the prospect of becoming an entrepreneur after completing the course?	The curriculum includes **open electives and incubation center support**, fostering startup culture. Manipal's **Technology Business Incubator (TBI)** and **MIT Innovation Centre** provide funding and mentorship for student entrepreneurs.
9	What is the average package and highest package?	- **Average Package:** 7-7.5 LPA - Highet Package 39.6 LPA (Microsoft)
10	Whether the companies which are coming for CSE are coming for CCE?	Yes, all CSE recruitment companies also hire CCE students, given their strong programming, networking, and embedded systems expertise.
11	What are different specializations available in CCE?	CCE covers Advanced Network Systems, Big Data Analytics, Machine Learning, Artificial Intelligence, Cybersecurity, Cloud Computing, and IoT.

		Along with these specializations, students can learn wireless communication, Networking, Advanced Communication Networks etc.
12	How is the practical / Project exposure in CCE?	CCE emphasizes hands-on learning through lab-based courses, research projects, industry collaborations, and hackathons. Faculty members have strong research backgrounds in networking and embedded systems, offering students real-world problem-solving experiences.
13	Is CCE course AICTE approved?	Yes it is AICTE approved.
14	What are the career opportunities after completing CCE at MIT Manipal?	CCE graduates can pursue careers in Software Development, Network Security, Cloud Computing, Data Science, IoT, and Embedded Systems Engineering in top tech companies and startups.
15	What research areas exist in CCE, and how can students participate?	The department has active research in AI, 5G Communication, Cybersecurity, and Blockchain. Students can work on faculty-led projects, publish papers, and join research groups.
16	What are the core subjects covered in CCE across different years?	1st & 2nd Year: Core CS subjects (Programming, Data Structures, Algorithms, OS, DBMS) 3rd Year: Advanced courses (Networks, Embedded Systems, Mobile Computing, AI/ML) 4th Year: Industry projects, electives, and research-oriented courses.
17	How does CCE prepare students for global job markets and higher education?	The department offers international collaborations, exchange programs, and a curriculum aligned with global industry standards.
18	Are there any industry collaborations or internships available for CCE students?	Yes, CCE students can intern at Cisco, Intel, Qualcomm, NVIDIA, and government research labs. The department has MoUs with global universities and tech firms.
19	What programming languages and tools are extensively covered in CCE?	Python, C, C++, Java, Ruby, MATLAB, SQL, R, and Shell scripting are covered, along with tools like Wireshark, NS3, and TensorFlow.
20	How does CCE at MIT Manipal incorporate emerging technologies like AI, 5G, and IoT?	The department has dedicated labs and industry-led courses covering Machine Learning, AI for Communication Systems, IoT, Cloud Computing, and Blockchain.
21	Does the department support students for startup incubation and entrepreneurship?	Yes, Innovation Centre and Incubation Centers offer mentorship, funding, and networking to CCE students interested in startups.
22	What lab facilities are available for hands-on learning in CCE?	The department has advanced labs for networking, AI, IoT, and cybersecurity, equipped with Cisco routers, NVIDIA GPUs, and FPGA boards.
23	Are there opportunities for international student exchange or semester abroad programs?	Yes, students can opt for semester exchange programs in the US, Europe, and Japan through MIT's global tie-ups.