DRONACHARYA
College of Engineering

Khentawas, Farrukh Nagar, Gurugram, Haryana
Approved by: All India Council for Technical Education (AICTE), New Delhi
Affiliated to: Maharshi Dayanand University (MDU) Rohtak, Haryana

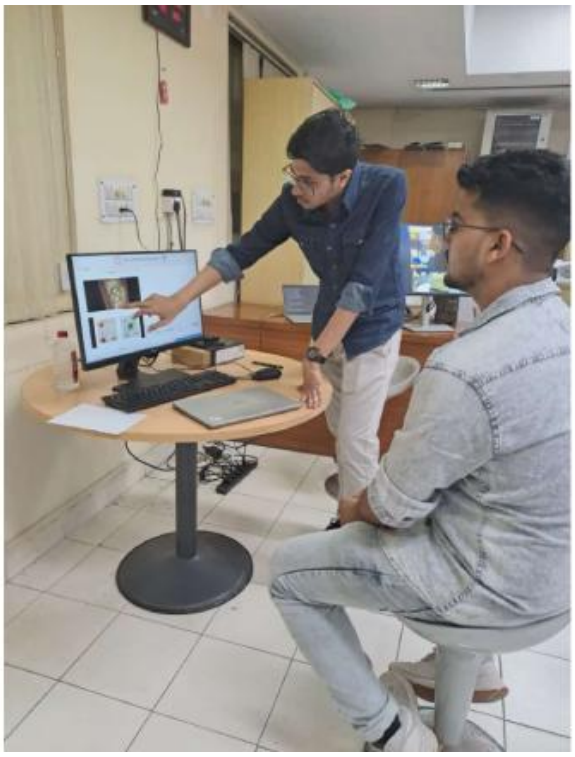
Name of the Subject: Programming in C++

Faculty Name: Mr. Naveen

Innovation Practices: Peer Learning and Pair Programming

Students Involved: 3rd Semester

Peer learning and pair programming are collaborative teaching practices that promote shared responsibility, active participation, and mutual support among students. When applied to the C++ programming subject, these methods foster a deep engagement with coding concepts, encourage teamwork, and enhance problem-solving abilities.

Students team up in pairs or small groups to solve coding exercises, such as implementing algorithms, designing classes, or managing memory efficiently. By collaborating, they can approach problems from different angles and share insights into complex C++ features like templates, inheritance, or polymorphism.

These collaborative practices enhance understanding, improve problem-solving skills, and foster a deeper engagement with the material. By developing both technical and soft skills, students are better prepared for real-world software development environments. Despite some challenges, the overall benefits of peer learning and pair programming make them highly effective teaching methods for C++.