

# Teaching Programming Laboratory Courses Online During Covid-19 Pandemic.

- **Author(s):** V. Senthil kumaran ,RM. Periakaruppan ,G Sneha
- **Abstract:** During this pandemic, because of COVID -19, all the students and teachers are stranded in their homes and everyone is forced to learn online. This study investigates the effectiveness of distributed pair programming to produce long-lasting learning experiences that meaningfully change the online learner's outlook. This methodology has brought the benefit of automating the generation of compatible pairs. Pair programming-based learning with compatible pair personalizes the ability to learn at scale and enhances the competency and expertise of the learners in problem-solving and coding skills in laboratory courses. A coding competence of a learner in a laboratory subject is the ability of the learner to perform effectively with improved morale and social self-determination. This study explored online learners' perceptions on pair compatibility during covid-19 in enhancing the competency of the learners by recommending compatible pairs. Findings suggest that the online learners can understand the opponent's solution for a problem, evaluate the consequences in the solution, and improvise the solution.
- **Keywords:** pandemic, programming-based learning, compatible pairs