

Design of a timetable scheduling system

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Abstract: The timetabling problem plays a core role in maintaining teaching and learning activities in schools. This project focuses on researching and building a software system to support the management and arrangement of timetables based on real data from Khoai Chau High School, Hung Yen province. The system integrates modules for managing teacher information, classes, classrooms, training programs, and subject distribution. In particular, the project applies part of the theory of "Genetic Algorithms" to solve the optimization problem of schedule allocation and avoid conflicts. The software provides functions for updating information, automatic scheduling, and printing timetables for each class and teacher.

Keywords: Timetable, genetic algorithm, system analysis and design, Khoai Chau High School, optimal scheduling