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Automated examination timetable for Faculty of Applied Sciences, University of Sri Jayewardenepura

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The goal of this study is to develop an automated optimal (considering all the stakeholder requirements) examination timetable for the Faculty of Applied Sciences in the University of Sri Jayewardenepura using graph colouring. At present, the Faculty offers 24 different subject combinations (each one consists of 3 different subjects) from all 17 subjects available to the undergraduates. The Faculty conducts final examinations for each course unit at the end of each semester. The processes of making examination timetables lack a theoretical base. Therefore, in this study edge colouring was used to find non conflicting subjects which could be held in the same time slot. Since there are course unit examinations for the first, second and third year students for each subject, a searching algorithm was used to place the course units in the list (giving considerable gaps between course units for each subject). As a result of this new timetable, making changes in the timetable has become less time consuming and less tedious and it is hoped that this will help improve the students' performance.

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