

**HIGHER TECHNICAL INSTITUTE
COURSE IN COMPUTER STUDIES**

DIPLOMA PROJECT

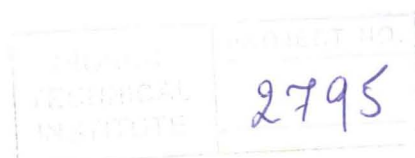
HIGH SCHOOL TIME – TABLE

CS/201

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SUMMARY**NEOPHYTOU CHRISTOS****STAVROU MICHAEL****HIGH SCHOOL TIME - TABLE**

This project deals with the development of a time scheduling system for the Cyprus Ministry of Education and Culture. More specifically this project deals with the development of a computerized system that will be able to produce a time schedule for high schools in both Gymnasiums and Lyceums for all schools in Cyprus.

This system will be a solution to the design of the time schedule manually (in most cases) or through an old computerized system (in very few cases) that still does not fill the entire schedule and plenty of manual modifications still need to be made. Up to now in both cases the development of the time schedule has been quite difficult and very time consuming.

The system accepts the necessary data such as teacher name, number of hours for each class, number of sections, a variety of constraints etc. and by use of AI (Artificial Intelligence) it manages to perform decision making even though it is a machine, and finds the best time scheduling solution. In addition the system performs the following tasks:

- (a) Produces a Time Schedule based on teacher names and dates (by classes)
- (b) Produces a Time Schedule based on classes and dates (by teachers' names)
- (c) On line help
- (d) Input Validation

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- (e) Automatic correction in case of manual changes
- (f) A backup utility
- (g) A recovery utility from the backups in case of data loss
- (h) A setup program

An extensive description of each of the major steps that comprise this process is given in separate chapters and is documented through the use of different methods of presentation.

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