

Timetable Filename:

{{ filename }}

Session/Year/Time frame:

{{ session }}

Project Acronym/Codename:

{{ acronym }}

Project Director/Principal:

{{ director }}

Generated:

{{ date }}

{{ institution }}

Timetable Statistics and Diagnostics Report

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**ABSTRACT**

Contained within this report are relevant statistical analyses with regard to the timetable with filename: **{{ filename }}** thus generated, as well as a helpfully detailed diagnostics process report that reveals whether the operation was a success or not, and to what degree.

A number of *peculiar* situations could arise in a real-world institution. Situations akin to having a number of teachers who (for some reason) teach only on certain days of the week, or teachers who are specialized to teach across only some of the available class categories across which his/her subject/course applies, or class arms that entertain lessons only on some given days of the week, or the presence of subjects which run in parallel (termed *parallel-subjects*) for any class arm that offers them, and maybe more. More than likely, one (or more) of the above *peculiarities* could be applicable to the operating conditions in {{ institution }}. These nuances significantly compound the problem of making an efficient timetable to optimally serve all its teachers and classes. As a consequence, the user’s input for the number of teachers, given the number of class arms, subjects, days and periods per day is not always guaranteed to be spot on. Some teachers may (due to the real-life constraints) be left stranded. The timetable generation could thus evaluate to *successful* or *unsuccessful.*

If successful, the teachers’ efficiency chart is displayed, and relevant conclusions are drawn. The teachers’ efficiency chart is simply a graphical representation of the measure with which each of the teachers’ teaching times are spaced throughout the day, for all of the teacher’s teaching days during the week.

If unsuccessful, clear details as to where, due to insufficient *resources* (teachers/tutors/handlers, usually) the operation might have performed below what was intended are rendered, as well as helpful mathematical solutions provided to estimate the minimum number of teachers/tutors/handlers to be imputed, to have the timetable generation evaluate to *successful*.

# **STATISTICS**

## CLASS MODELS

### CLASS CATEGORIES

The timetable, as it is up to this point, features the following class categories:  
{% if classcats %}  
{% for classcat in classcats %}

1. {{ classcat.name }}  
   Description: {{ classcat.description }}

{% endfor %}

CHILD ITEMS DETAILS

{% else %}  
None created at this point.  
{% endif %}

## TEACHERS

## SUBJECT MODELS

## DAYS

## PERIODS

# DIAGNOSTICS