Technical design

„Exemptions of subjects“

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| **Version** | **Date** | **Author** | **Notes** |
| 0.1 | 07.01.2015 | Douglas Kunda (MU)  Markus Pscheidt | First draft design based on Mulungushi requirements analysis |
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# Introduction

**Summary:** Enable Opus to specify exemptions on semester/year level.

# Requirements specification

**Institution-specific aspects:** At Mulungushi (MU), an entire year can be exempted if students present documents that they have accomplished a year of study of similar content at a different university.

Therefore, for MU it would be sufficient to put a property called “exempted” on the semester or year level, but in reality, if a student is exempted from, say, semester 1, this student never participates in a semester 1 at MU, but has done so somewhere else.

Hence, it is more correct and better matching reality, if exempted subjects from (e.g. from 1st and 2nd semesters) are added to the current student’s semester (e.g. 3rd semester) with their exempted flag set true.

Moreover, if exempted semesters / years would have their own entity (i.e. a record in studyPlanCardinalTimeUnit), then what progressStatus and what final mark would it get?

**Example workflow:**

1. Student A requests admission for semester 3 and asks for exemption for semesters 1 and 2.
2. Academic Office verifies the admission papers and sets the status to “Approved admission”. The student now has “Semester 3” in his study plan.
3. If the exemption request is accepted, Academic Office edits “Semester 3” by adding all subjects from semesters 1 and 2. For each subject, the exemption flag is selected.
4. When the final result for the entire study program is calculated, exempted subjects will be ignored and have no effect on the final result.

# Technical specification

## Tables

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| Table studyPlanDetail | New boolean field exempted |

## Screens

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| Screen name | UI changes | Priority  (1 = high) |
| StudyPlanDetail | New checkbox for the „exempted“ flag | 1 |
| StudyPlanDetail | Show all compulsory subjects as in Fast Input screen (instead of the current combo box where only one subject is selectable at once) | 2 |
| StudyPlan, StudyPlan-CardinalTimeUnit,  StudyPlanResult,  CardinalTimeUnitResult | Make a column to display the exempted flag for each studyPlanDetail | 1 |
| StudyplanResult,  CardinaltimeunitResult,  SubjectResults,  ExaminationResults,  TestRestuls | In the “Subject result”/”Mark” column say “Exempted” | 1 |
| StudyPlan-CardinalTimeUnit | Make studyPlanDetails visible that belong to a different time unit (e.g. exempted subjects from semester 1 shall be visible in semester 3) | 1 |
| ProgressStudent | Don’t include exempted subject at all  e.g. don’t count as subjects without result because this would influence the behavior of progress status calculation | 1 |

## Opus framework

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| --- | --- | --- |
| ResultCalculations. calculateResultsForStudyPlan  (all implementations of it) | * Ignore studyPlanDetails with the exempted flag turned on * Make sure the graduation flag and final mark are correctly calculated | 1 |
| ProgressStudents | Don’t transfer exempted subjects   * From Sem3 with exempted Sem1 subject to Sem4 * From Sem1 with exempted Sem2 subject to Sem2 | 1 |
| StudyPlanDetail EditController,  StudyPlanCardinalTimeUnit EditController | Don’t count exempted subjects against maxNumberOfSubjects E.g. adding all 1st and 2nd semester subjects to 3rd semester might be prevented by the check against maxNumberOfSubjects | 1 |

## Reports

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| --- | --- | --- |
| Student profile sheet | In the “Notes” column indicate exempted subjects | 2 |
| Missing subjects | Take exempted flag into account | 2 |
| Certificate | Take exempted flag into account | 2 |