

## Elective courses for the university

### Overview:

- Web application where each university student can select his elective disciplines which are available for the current year of study

### Requirements:

- Students are already registered (no register, no login)  
they should have:
  - o Name
  - o Grade
  - o Study Year
  - o Faculty section
- Multiple disciplines available with different requirements
  - o Maximum students allowed
  - o Year of study
  - o Category (e.g. FE, BE, DevOps)
  - o Teacher
- Allow student to select a list of disciplines in order of preference (real-life scenario: year 2 students have to pick 2, year 3 students need to pick 3 electives)
- The disciplines should be of different categories in the end (FE / BE / DevOps)
- Each year of study has a number of mandatory elective disciplines
- The system should decide how students are assigned (preliminary list): e.g. take students in descending order by grade, assign them to the first K available options.
- Optional: Create a report with the students assigned to each discipline

### As a Student:

- Can see all Courses and filter on criteria
  - o study year
  - o Capacity level
  - o Category
  - o disciplines where he/she applied
- Apply to a Discipline. You can also remove this request.
- See some details about the discipline, including the number of the current applications.
- Students can view a list of enrollments and should be able to see their classmates for each elective subject after the enrollment is closed.
- While the applications are open, the student can reorder his preference (priority) list
- When the application period is closed, the interface should be read-only and should display only the final list of enrollments

- Optional: The student should see a calendar (not necessarily graphical, but at least a list) with his subjects

#### As an Admin

- Can create/delete/edit a discipline
- Can close the application period
- See the registered students per discipline
- Can manually reassign students
- Can list and filter student (based on year, grade, [section])
- Optional: The admin should be able to assign timeslots for each elective (day of the week, time range, e.g. Wednesday, 8-9:30 AM); admin should be warned if they attempt to assign a timeslot that has conflicts given the list of enrollments (conflict = a student would have two electives at the same time)
- Optional: The Admin can download Excel/Pdf/Txt/etc documents with relevant data regarding students (per study year, per elective, etc.)