



Course (abstract)

- courseCode: String

- quota: int

- credits: int

- theoretical: int

- practical: int

- courseSection: CourseSection

- registrationSystem: RegistrationSystem

- nonRegisteredCollision: Set<Student>

- nonRegisteredQuota: Set<Student>

Course(courseCode: String, quota: int, credits: int, theoretical: int, practical: int)

+ isEligiblePastCourse(student: Student): boolean

+ whenRequested(student: Student): boolean

+ totalHours(): int

ElectiveCourse (abstract)

- semesters: List<Integer>

+ ElectiveCourse(courseCode: String, quota: int, credits : int, theoretical: int, practical: int, semesters: List<Integer>)

+ whenRequested(student: Student): boolean

+ whenRejected(student: Student): (abstract)

+ getRandomElective(): Course (abstract)

FacultyTechnicalElectiveCourse

+ FacultyTechnicalElectiveCourse(courseCode: String, quota: int, credits : int, theretical: int, practical: int, semesters: List<Integer>)

+ whenRejected(student: Student)

+ getRandomElective(): Course

+ toString(): String

NonTechnicalUniversityElectiveCourse

+ NonTechnicalUniversityElectiveCourse(courseCode: String, quota: int, credits : int, theretical: int, practical: int, semesters: List<Integer>)

+ whenRejected(student: Student)

+ getRandomElective(): Course

+ toString(): String

TechnicalElectiveCourse

- requiredCredits: int

- preRequisites: List<Course>

- nonRegisteredCredit: Set<Student>

+ TechnicalElectiveCourse(courseCode: String, quota: int, credits : int, theretical: int, practical: int, semesters: List<Integer>, requiredCredits: preRequisites: List<Course>)

+ isEligiblePastCourse(student: Student): boolean

+ whenRequested(student: Student): boolean

+ whenRejected(student: Student)

+ getRandomElective(): Course

+ checkCreditCondition(student: Student): boolean

MandatoryCourse

- semesterNumber: float

- semester: Semester

- preRequisites: List<Course>

- nonRegisteredPrereq: Set<Student>

+ MandatoryCourse(courseCode: String, quota: int, credits : int, theretical: int, practical: int, preRequisites: List<Course>)

+ isEligiblePastCourse(student: Student): boolean

+ isOfferableForStudent(student: Student): boolean

+ whenRequested(student: Student): boolean

+ setSemester()

FinalProjectMandatoryCourse

- requiredCredits: int

- nonRegisteredCredit: Set<Student>

+ FinalProjectMandatoryCourseCourse(courseCode: String, semester: float, quota: int, credits : int, theretical: int, practical: int, preRequisites: List<Course>, requiredCredits: int)

+ isEligiblePastCourse(student: Student): boolean

+ whenRequested(student: Student): boolean

+ checkReqCredits(student: Student): boolean

+ getRequiredCredits(): int