- depCode: String = "1501" {readOnly}	- firstName: String				+ DAYS: int = 5 {readOnly}		
- student: Student	- lastName: String				+ HOURS: int = 8 {readOnly}		
- studentId: String	+ Advisor(firstNam	ne: String	, lastName: String)		- program: CourseSection[7][8]		
+ StudentId(student: Student)	,	ection:CourseSection,		- student: Student			
+ StudentId(student: Student, studentId: studentId)	student: Student)				+ Schedule (student: Student)		
+ setStudentId()	+ getFirstName():	+ getFirstName(): String			+ addToProgram(courseSection: CourseSection)		
+ getStudentId(): String	+ getLastName():	+ getLastName(): String			+ getCollidedHours(courseSection: CourseSection): List <coursesection>)</coursesection>		
- getYearString(): String					+ isCollision(courseSection: CourseSection): bool	ean	
- getRegistrationString(): String					+ getProgram(): CourseSection[][]		
+ toString(): String					+ setProgram(program: CourseSection[][])		
						7	
CourseSection			RegistrationSystem		RegistrationSystem		
- course: Course			- registrationSystem: RegistrationSystem			- name: String	
- registrationSystem: RegistrationSystem			- semester: Semester			- surname: St	
- full: boolean			- totalStudents: int[]			- studentId: Si	
- sectionHour: int			- students: List <student></student>			- registrationC	
+ students: List <student></student>			- advisors: List <advisor></advisor>			- currentYear:	
- courseProgram:boolean[7][8]			- courses: List <course></course>			- advisor: Adv	
- quotaStatistics: int			- mandatoryCourses: List <mandatorycourses></mandatorycourses>			- schedule: So	
- prerequistieStatistics: int			- nonTechElectiveCourses: List <nontechnicaluniversityelectivecourse></nontechnicaluniversityelectivecourse>			- transcript: Tr	
- collisionStatistics: int			- techElectiveCourses: List <technicalelectivecourse></technicalelectivecourse>			- registrationS	
+ CourseSection(course:Course)			- facultyElectiveCourses: List <facultytechnicalelectivecourse></facultytechnicalelectivecourse>			- executionTra	
+ setCourseProgram()			- passProbability : doubl	e			
+ collideWithSameSemester(randomHour: int, randomDay: int): boolean			- studentCount: int			+ Student:(na	
+ addStudent(student:Student)			- advisorCount: int			+ Student:(na	
+ getQuota(): int			- nonTechElectiveSemesters: List <integer></integer>			, + getNumOfPa	
+ isFull(): boolean			- techElectiveSemesters: List <integer></integer>				
+ getCourse(): Course			- facultyElectiveSemesters: List <integer></integer>			+ getSemester	
+ getCourseSectionCode(): String			- statisticsBuffer: String			+ addToCurrer	
+ setFull(full: boolean)			- RegistrationSystem()			- requestCours	
+ getCollisionStatistics(): int			- getInstance(): RegistrationSystem			+ hasPassedC	
+ setCollisionStatistics(collisionStatistics: int): int			- startTheSimulation()			+ requestMand	
+ getSectionHour(): int			- statisticsOutput()			+ requestElect	
+ setSectionHour()			- registrationProcessOut	tput()		+ getExecution	
+ getStudents(): List <student></student>			- printRegistrationProcess()				
+ setCourse(course)			- initializeAdvisors()			+ setExecution	
+ getQuotaStatistics(): int			- initializeStudents()			+ getName(): \$	
+ setQuotaStatistics(quotaStatistics: int)			- appointAdvisors()			+ getSurname	
+ getPrerequistieStatistics()			appointativisois()			+ getFullName	

- addPastNTEs(student: Student) + setPrerequistieStatistics(prerequistiesStatistics: int): int - addPastFTEs(student: Student) + getCourseProgram(): boolean[][] - addPastTEs(student: Student) - addPastElectives(student: Student) Transcript - addPastCourse(student: Student, course: Course) - student: Student addPastMandatory(s: Student) currentCourses: List<Course> - addPastCourses() - grades: <Grade> requestCourses() Transcript(student: Student) getOfferedCourses(student: Student): List<CourseSection> + getCompletedCredits() getOfferedElectiveCourses(student: Student): List<CourseSection> + getPassedCourses(): List<Course> readInput() + getTakenCourses(): List<Course> + isThereEmptyNonTechSection(): boolean + hasPassedCourse(course: Course): booelan + isThereEmptyTechSection(): boolean + hasPassedCourses(course: List<Course>): booelan + isThereEmptyFacTechSection(): boolean + addFailedCourse(course: Course) + setSemester(semester: String) + getStudent(): Student - findCourse(courseCode: String):Course + setStudent(student: Student) + getSemester(): String getGrades(): List<Grades> + getPassProbability(): double + setGrades(grades: List<Grades>) + setPassProbability(passProbability: double) getCurrentCourses(): List<Course> getStudentCount(): int + setCurrentCourses(currentCourses: List<Course>) - setStudentCount(studentCount: int) + toString(): String getAdvisorCount(): int setAdvisorCount(advisorCount: int) + getCourses(): List<Course>

+ getRegistrationSystem(): RegistrationSystem

+ getMandatoryCourses(): List<MandatoryCourse>

+ getNonTechElectiveSemesters(): List<Integer>

+ getFacTechElectiveSemesters(): List<Integer>

+ getTectElectiveSemesters(): List<Integer>

getStatisticsBuffer(): String

+ getTechElectiveCourses(): List<TechnicalElectiveCourse>

getFacultyElectiveCourses(): List<FacultyTechnicalElectiveCourse>

getNontechElectiveCourses(): List<NonTechnicalUniversityElectiveCourse>

+ getTotalStudents(): int[]

+ getStudents(): List<Student>

+ getAdvisors(): List<Advisor>

Student - name: String - surname: String - studentld: Studentld - registrationOrder: int currentYear: int advisor: Advisor - schedule: Schedule - transcript: Transcript - registrationSystem: RegistrationSystem - executionTrace: StringBuilder + Student:(name: String, surname: String, studentld: String, registrationSystem: RegistrationSystem, semesterNumber: int) + Student:(name: String, surname: String, currentYear: int, registrationOrder: int, registrationSystem: RegistrationSystem + getNumOfPastElectives(semesterNums: List<Integer>): int + getSemesterNumber(): int + addToCurrentCourses(courseSection: CourseSection) requestCourseSection(courseSection: CourseSection) + hasPassedCourse(course Course): boolean requestMandatoryCourses() + requestElectiveCourses() + getExecutionTrace(): StringBuilder + setExecutionTrace(executionTrace: StringBuilder) + getName(): String + getSurname(): String + getFullName(): String + getRegistrationOrder(): int + getStudentId(): StudentId + getCurrentYear(): int + getAdvisor(): Advisor + setAdvisor(advisor: Advisor): void + getSchedule(): Schedule + setSchedule(schedule: Schedule): void + getTranscirpt(): Transcript + toString(): String Grade - intGrade: int - course: Course

+ Grade(intGrade: int,

+ isPassed(): booelan

+ getIntGrade(): int

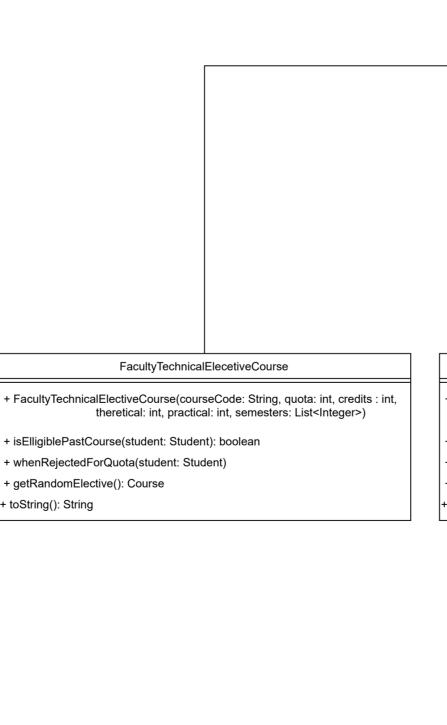
+ getCourse(): Course

+ setCourse(course: Course)

+ getLetterGrade: String

course: Course)

Schedule



+ onRequested(student: Student): booelan + getSectionHours(): int + setSectionHours(theoretical: int, practical: int) + getCourseCode(): String + getQuota(): int + getCredits(): int + getTheoretical(): int + getPractical(): int + getRegistrationSystem(): RegistrationSystem + getCourseSection(): int + setCourseSection(courseSection: CourseSection) + toString(): String ElectiveCourse {abstract} - semesters: List<Integer> + ElectiveCourse(courseCode: String, quota: int, credits: int, theretical: int, practical: int, semesters: List<Integer> + isOfferableForStudent(student: Student): booelan + onRequested(student: Student): boolean + offeredElectiveCount(student: Student): int + onRequested(student: Student): boolean + whenRejectedForQuota(student: Student): {abstract} + getRandomElective(): Course {abstract} + getSemesters(): List<Integer> + setSemesters(semesters: List<Integer TechnicalElectiveCourse NonTechnicalUniversityElectiveCourse requiredCredits: int + NonTechnicalUnversityElectiveCourse(courseCode: String, quota: int, credits: int, theretical: int, practical: int, semesters: List<Integer>) - creditStats: int + isElligiblePastCourse(student: Student): boolean - preRequisites: List<Course> + whenRejectedForQuota(student: Student) - preRequisiteStats: int + getRandomElective(): Course unregisteredStudents: Set<Student> + toString(): String + TechnicalElectiveCourse(courseCode: String, quota: int, credits: int, theretical: int, practical: int, semesters: List<Integer>, requiredCredits: preRequisites: List<Course>) + isElligiblePastCourse(student: Student): boolean + whenRejectedForQuota(student: Student)

+ getRandomElective(): Course

+ getRequiredCredits(): int

+ getCreditStats(): int

+ getPreRequisiteStats(): int + setPreRequisiteStats()

+ setCreditStats()

+ toString(): String

+ onRequested(student: Student): boolean

+ setRequiredCredits(requiredCredits: int)

+ getUnregisteredStudents(): Set<Student>

+ setUnregisteredStudents(unregisteredStudents: Set<Student)

+ getPreRequesities(): List<Course>

+ checkCreditCondition(student: Student): boolean

+ setPreRequesities(preRequisites: List<Course>)

-theoretical: int
-courseSection: CourseSection
-registrationSystem: RegistrationSystem

+ Course(courseCode: String, quota: int, credits: int, theoretical: int, practical: int)
+ isEttligiblePastCourse(student: Student): boolean (abstract)
+ isOfferablePorStudent(student: Student): boolean (abstract)
+ isOfferablePorStudent(student: Student): boolean (abstract)
+ onRequested(student: Student): boolean
+ getSectionHours(theoretical: int, practical: int)
+ getCourseCode(): String
+ getTheoretical(): int
+ getTredita(): int
+ getPractical(): int
+ getPractical(): int
+ getRegistrationSystem(): RegistrationSystem
+ getCourseSection(): int
+ setSourseSection(): int
+ setSourseSection(): ourseSection: CourseSection)

- semesterSumber: float
- semester Semester
- nonRegisteredCouta: Set-Student>
- nonRegisteredCoulision: Set-Student>
- nonRegisteredCoulision: Set-Student>
- nonRegisteredCoulision: Set-Student>
- nonRegisteredCoulision: Set-Student>

Course {abstract}

- courseCode: String

quota: intcredits: int

- nonRegisteredPrereq: Set<Student> preRequisties: List<Course> + MandatoryCourse(courseCode: String, quota: int, credits : int, theretical: int, practical: int, preRequesities: List<Course>) + isElligiblePastCourse(student: Student): boolean + isOfferableForStudent(student: Student): booelan + onRequested(student: Student): boolean + setSemesterNumber(semesters: float) + getSemesterNumber(): float + setSemester(): Semester + getPreRequesities(): List<Course> + setPreRequesities(preRequisites: List<Course>) + getNonRegisteredPrereq(): List<Student> + setNonRegisteredPrereq(nonRegisteredPrereq: Set<Student>) + getNonRegisteredQuota(): List<Student> + setNonRegisteredQuota(nonRegisteredQuota: Set<Student>) + getNonRegisteredCollision(): List<Student> + setNonRegisteredCollision(nonRegisteredCollision: Set<Student>)

FinalProjectMandatoryCourse

- requiredCredits: int

- nonRegisteredCredit: Set<Student>

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

+ isElligiblePastCourse(student: Student): boolean

+ onRequested(student: Student): boolean

+ getRequiredCredits(): int

+ checkReqCredits(student: Student): boolean

+ setRequiredCredits(requiredCredits: int)

+ getNonRegisteredCredit(): Set<Student>

+ setNonRegisteredCredit(nonRequesedCredtis: Set<Student>)

+ toString(): String