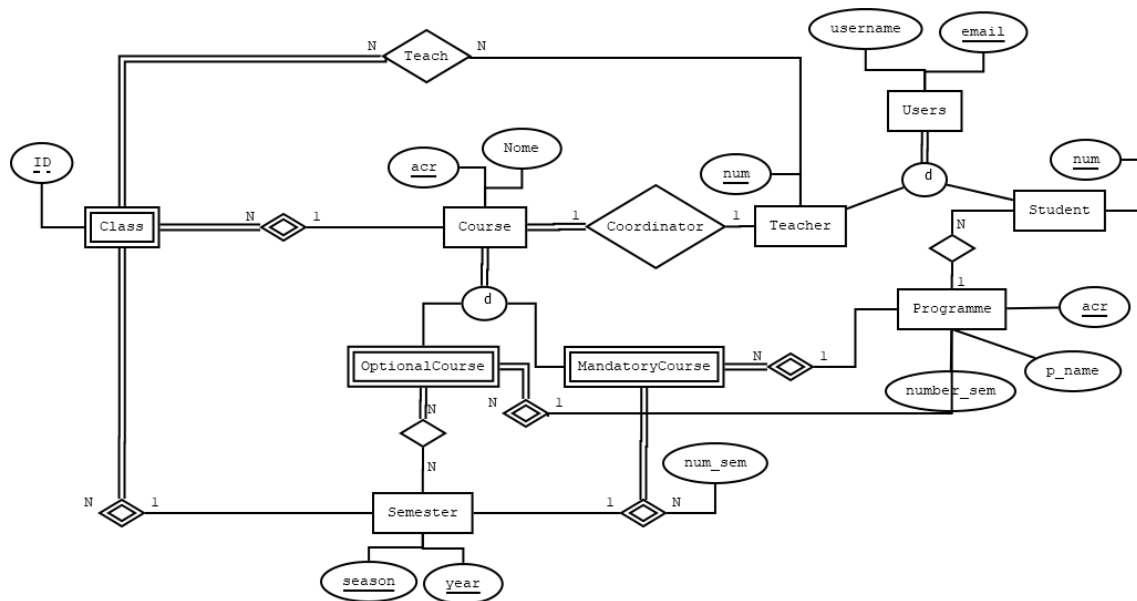# Modelo Entidade-Associação

Modelo Físico

Entidades Fortes:

Users (email, username)
    CC = {{email}}

Course (acr,c_name,numCoord)
    CC = {{acr}}
    CE= {{numCoord}}
    numCoord: Teacher (num)

Programme (acr, p_name, number_sem)
    CC = {{acr}}

Student (Snum, email,p_acr)
    CC = {{num}}
    CE= {{email,p_acr}}
    Email: Users(email)
    P_acr: Programme(p_acr)

Teacher (num, email)
    CC = {{num}}
    CE={{email}}
    Email: Users(email)

Semester (season, year)
    CC = {{season,year}}

Entidades Fracas:

Optional_course (acr, acrProgramme)
    CE= {{acr, acrProgramme}}
    Acr: Course (acr)
    acrProgramme: Programme(acr)

Mandatory_course (acr,yearSem,season,acrProgramme)
    CC= {{acr,year,season,acrProgramme }}
    CE= {{year,season,acr,acrProgramme,}}
    Year, season: Semester (year, season)
    Acr: Course (acr)
    acrProgramme:Programme(acr)

Class (id,year,season,acrCourse)
    CC= {{id, year, season, acrCourse}}
    CE= {{year,season,acrCourse}}
    Year, season: Semester (year, season)
    acrCourse: course (acr)

Associações:

Sem_optionalcourse (acr, yearSem, season, acrProgramme,)
    CC= {{acr, yearSem, season, acrProgramme}}
    CE= {{yearSem, season,acrProgramme,acr}}
    Acr: optional_course(acr)
    yearSem,season: semester(yearSem,season)
    acrProgramme: programme(acr)

Teacher_class(id,yearSem,season,numTeacher,acrCourse)
    CC= {{id,yearSem,season,numTeacher,acrCourse }}
    CE={{id,yearSem,season,acrCourse,numTeacher}}
    id,yearSem,season,acrCourse: Class(id,yearSem,season,acrCourse)
    numTeacher: Teacher(num)