

# Concepts

schedule

```
studies(student_0, physics201).
studies(student_0, mech202).
studies(student_0, csen202).

studies(student_1, physics201).
studies(student_1, physics201).

studies(student_2, csen202).
studies(student_2, signls402).

studies(student_3, netw201).
studies(student_3, elct402).
studies(student_3, signals402).

day_schedule(saturday, [[math203],[physics201, csen202],[signls402, netw201],[[],[]]).
day_schedule(sunday, [[math203],[chem101, mech202],[[],[],[]]).
day_schedule(monday, [[math203],[physics201, csen202],[[],[],[]]).
day_schedule(tuesday, [[signals402],[physics201, csen202],[[],[],[]]).
day_schedule(wednesday, [[math203],[[],[physics201, elct402],[[],[]]).
day_schedule(thursday, [[math203],[[],[],[netw201, csen202],[[]]).
```

student\_0

- physics201
- mech202
- csen202

student\_1

- physics201
- physics201

student\_2

- csen202
- signls402

student\_3

- netw201
- elct402
- signals402

Day/Slot	1st	2nd	3rd	4th	5th
saturday	math203	physics201, csen202	signals402, netw201		
sunday	math203	chem101, mech202			
monday	math203	physics201, csen202			
tuesday	signals402	physics201, csen202			
wednesday	math203		physics201, elct402		
thursday	math203			<b>netw201, csen202</b>	

- Each student should not have clashes in the schedule between any two courses that he/she is studying.
- Each student should not have slots allocated on more than a predefined number of days per week (to enforce the constraint of giving each student 2 days off).