***Homework 2 – Softwaretechnik***

**Task 1**: Process Modeling with Activity Diagrams

Steps

1. *Lecturer Logs into System*
   1. Action: “Lecturer enters credentials”
   2. Control Flow: Transition to “Open course page”
2. *Open Course Page*
   1. Action: “Lecturer opens course page”
   2. Control Flow: Transition to “Enter lecture times and exercise times”
3. *Enter Lecture and Exercise Times*
   1. Actions: “Lecturer enters lecture/exercise times”
   2. Decision: System performs quick validation check
      1. Path: **If valid**, continue
      2. Path: **if invalid** (conflict detected), alternative flow (adjustment)
4. *Confirm Changes*
   1. Action: “Lecturer confirms changes”
5. *System Checks and Reports Conflicts:*
   1. Action: “System generates conflict report”
   2. Decision: Conflict detected?
      1. Path: If **no conflicts**, continue to submission
      2. Path: If **conflict exist**, alternative flow (adjustment)
6. *Adjust Times (Alternative Flow)*
   1. Action: “Lecturer adjusts times and resubmits”
   2. Control Flow: Returns to “System checks and reports conflicts”
7. *Submit Course*
   1. Action: “Lecturer submits course details”
   2. Control Flow: System updates courses availability
8. *Ende*
   1. Final Node. Course available for students to enroll

Start

Conflicts? Times?

Exercise Group Distribution

Open Course Distribution

Open Course Page

Open Group- Page

Times

YES

Adjust Time

YES

Times

Course Available

Adjust Time (YES)  
Yes Adjust Time   
- No

NO

Adjust Times (---) (NO)

Adjust Course Page

SUBMITE

Course Available