"I would never trade in the old class schedule for the Block Plan"

Reorganizing the teaching schedule in BSc IT Security at the University of Applied Sciences, St. Pölten

HRK | International Engineering Conference | 2012

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Initial Situation

- "Battle" for students' resources
 - lecturers who demand more engagement from students exhaust their resources, while other lecturers go away emtpy handed
 - students learn only what is requested in exams
 - projected workload does not concur with real workload
- Dissatisfaction with self study activities
 - workload peaks due to concurrently placed assignments
 - generous deadlines provoke procrastination
- Goals of the curriculum were only partly achieved

Block Plan Reorganizing the Lesson Plan

winter semester 2011/12



- duration of blocks reflects size of modules in ECTS
- seat time stayed almost the same
- English taught in weekly lessons

Support Actions

- Decision for reorganization by the staff in January 2011
- Support by external experts in didactic issues
- 2 on-site workshops
- Mentoring by an intern body (SKILLS)
- Support by a tutor for the whole period
- Time budget study of the students' workload

Effects on Workload

Time Budget Method



	Fachhochschule Sankt Pölten GmbH ZeitBudgetTool								
» Logo									
		on Christiane Metzger vom 23.0	2.2012 ?						
07:30 Uhr	1:00 Stunden	Studium & Freizeit Private Zeit	Lehrveranstaltungstyp	Arbeitstorm	Zweck	Tätigkeit	Medien	Optione	
08:30 Uhr		An- und Abfahrt zur FH						YT ×	
09:00 Uhr	1:30 Stunden	Einführung Netzwerke und verteilte Systeme	Vorlesung	Anwesenheit in Lehrveranstaltungen				TT ×	
10:30 Uhr	0:15 Stunden	Freies studienbezogenes						IT ×	
10:45 Uhr	2:30 Stunden	Einführung Netzwerke und	Übung/Labor	Selbststudium (studentische Arbeitsgruppe)	Unterrichtsnachbereitung	praktische Aufgabe(n) im Labor lösen	mit IT- Medien	W Z	
13:15 Uhr	1:00 Stunden	Private Zeit						TT ×	
14:15 Uhr	1:30 Stunden	Einführung Netzwerke und verteilte Systeme	Übung/Labor	Anwesenheit in Lehrveranstaltungen				III Z	
15:45 Uhr	0:15 Stunden	Studium: Organisation	-					11 ×	
16:00 Uhr	0:30 Stunden	An- und Abfahrt zur FH						1112	
16:30 Uhr	1:00 Stunden	Private Zeit						TT>	
17:30 Uhr	2:00 Stunden	Hobby						III E	
19:30 Uhr	3:45 Stunden	Private Zeit						YT >	

Workload Variables

- seat time
- self study time
- time for organizational issues (copy documents, investigation on internship...)
- informal conversation about learning/study programme
- time for student self-administration
- time for internship
- time for excursions

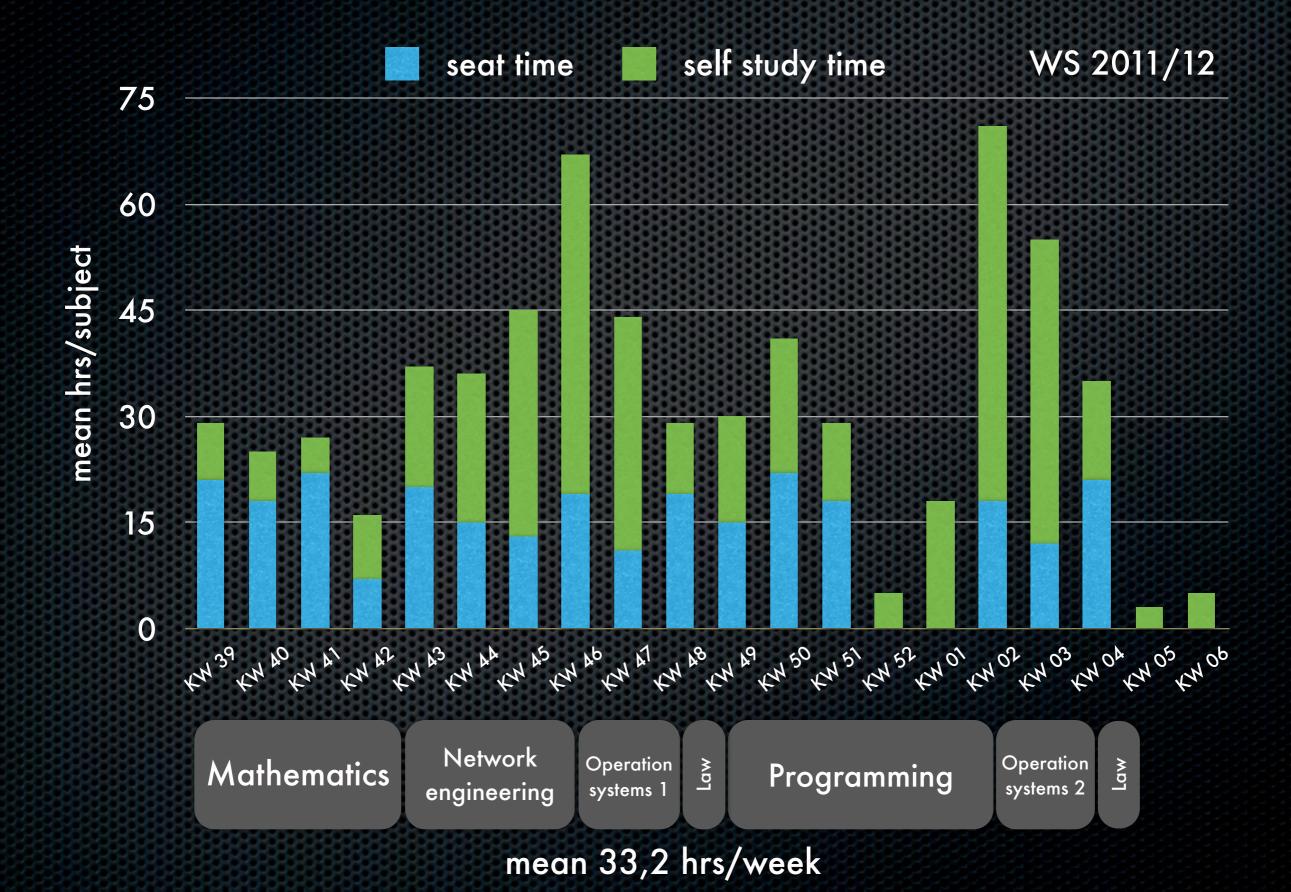
Data Quality

Entries until 5 pm the following day A completed sheet is not available anymore

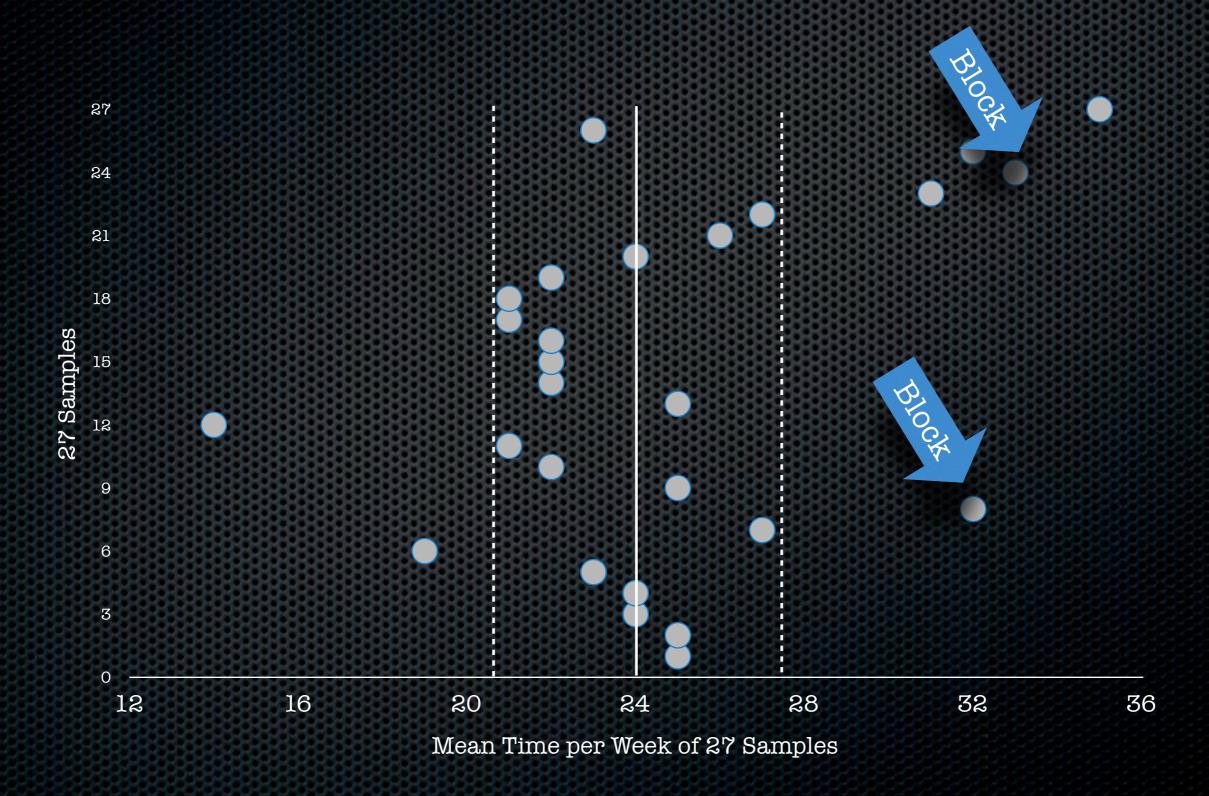
Check regarding completeness

+ plausibilty on a daily basis

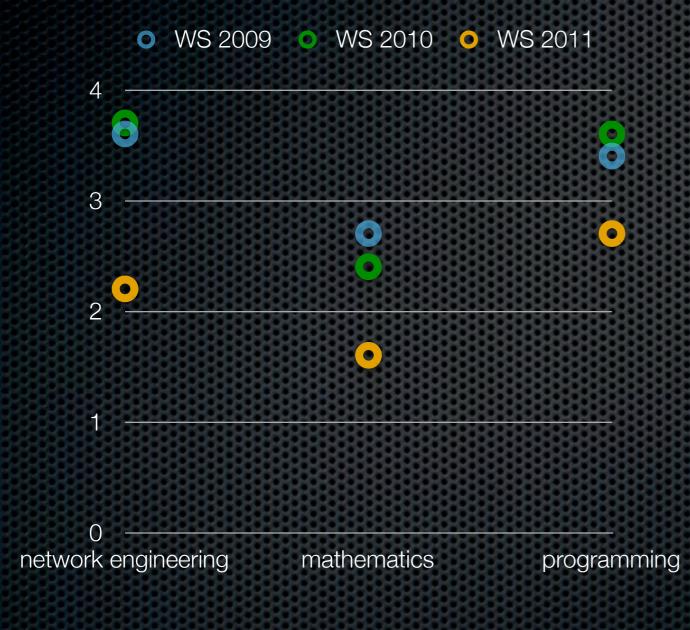
- * registered time: 15-16 hrs/day (ø sleeping time)
- * smallest documented time slot: 15 min
- + survey period: 2011-09-26 to 2012-02-12 daily
- complete cohort

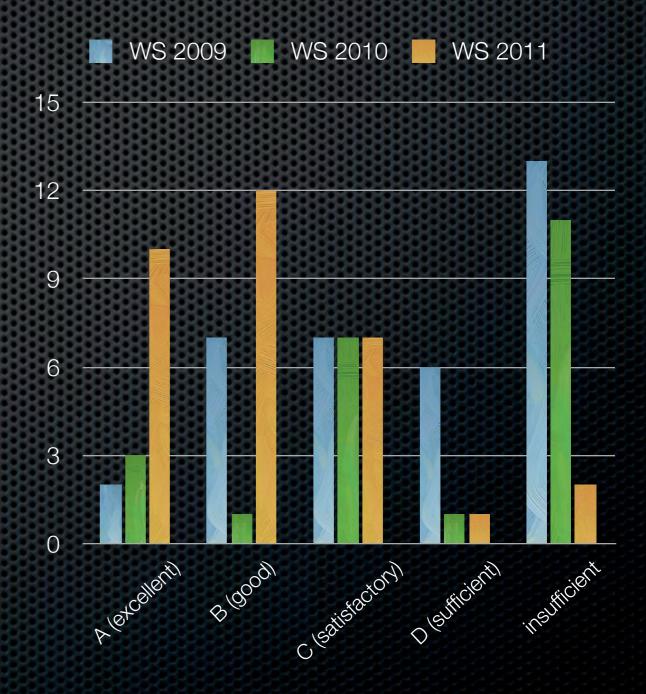


Effects on student engagement, grades, failure and retention



Grades & Failure





Lecturers' impressions

Staff Feedback

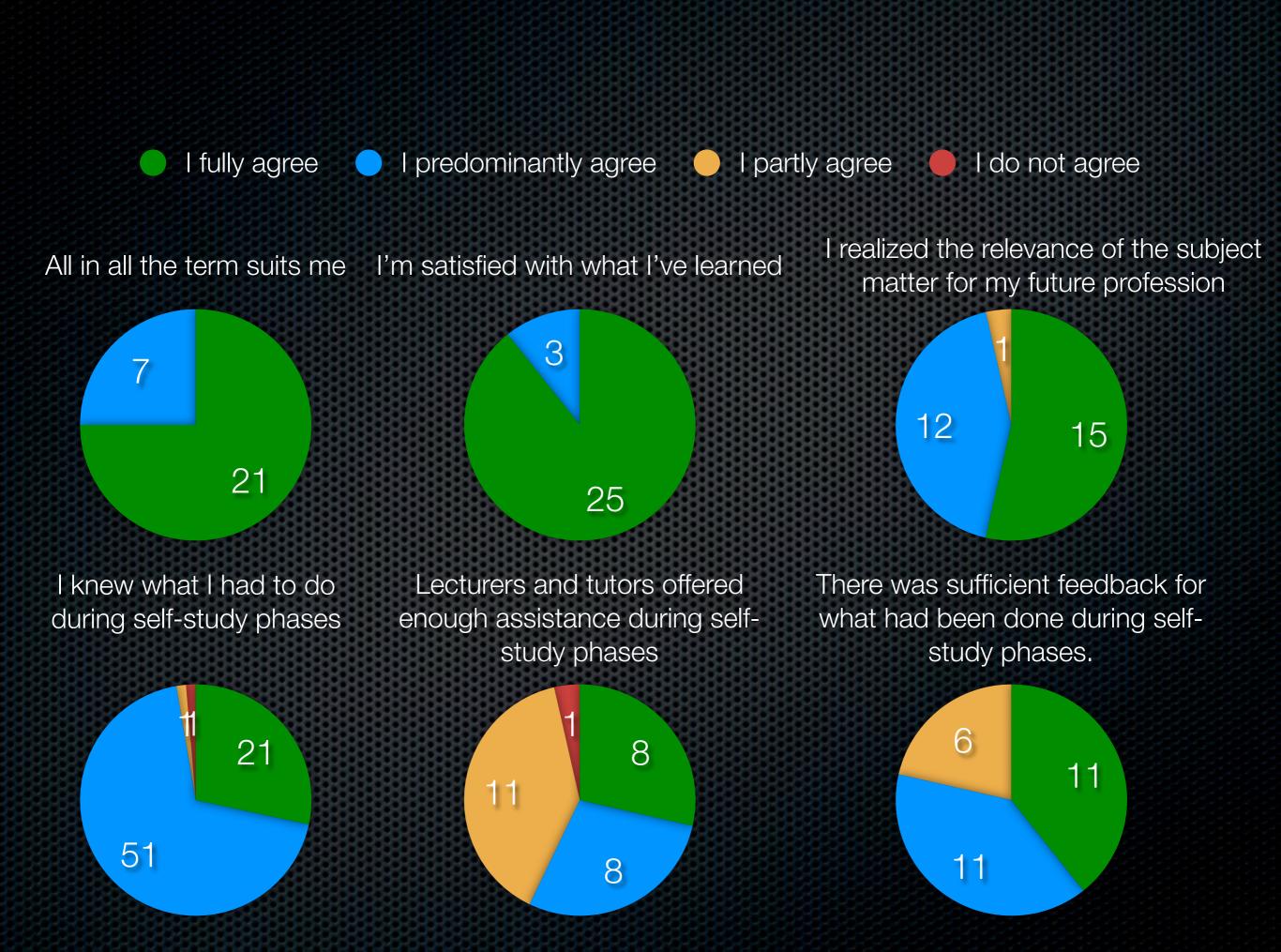
- Higher workload due to short feedback time-limits
- higher Motivation due to:
 - closer contact with students
 - higher sense of responsibility for learning process
 - better participation of students
- Pro: more time for research before and after course block

Prof. Johann Haag, St. Pölten



"The Block Plan is for lecturers more intensive and demanding, but if you recognize the student engagement, then you are thrilled and like the students you will never trade in the old class schedule for the Block Plan"

Students' impressions



Absolutely retain the Block Plan. With some slight modifications maybe concerning the self study (he mentions modifications that was too long). With this exception the Block modifications that was too long). You may concentrate on one the situation that was too long. You may concentrate on the Block modifications that was too long). You may concentrate on the situation that was too long it know. You may concentrate on the Block modifications are structured to long it is the situation that was too long it is the situation that was too long it is the best system I know. You may concentrate on the long it is the best system I know. You may concentrate on the long it is the best system I know. You may concentrate on the long it is the best system I know. You may concentrate on the long it is the best system I know. You may concentrate on the long it is the best system I know. You may concentrate on the long it is the best system I know. You may concentrate on the long it is t

I would never trade in the old class schedule for the Block Plan. The Block Plan facilites many tasks, knowledge is more sustainable. I do not believe I would have successfully finished the first term without a second chance if we had the old class schedule.

one subject at a time and did not have to learned the previous week only in this however:-)

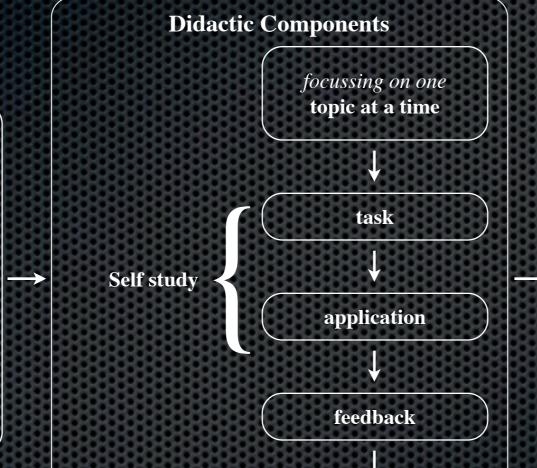
If directly asked, if I want to stick to the Block Plan model, I would not hesitate to answer YES.

Block Plan Design

Consecutive, exclusive execution of modules integrating self study

Individual Variables (motivation)

- anxiety
- emotion regulation
- responsability
- competence expectancy
- distraction
- prokrastination
- staying the course
- self congruent & persistent target tracking



exam

at the end of each module plus acceptance of self study-output as examination achievement

Consequences & Effects

- no competition among modules
- continuous self study
- sustainable knowledge and skills by integrating learning and application
- reduction of anxiety by
 - feedback zum individuellen Lernstand
 - experiencing competence & success
 - certainty to be well prepared because of continuous engagement
 - accompanying exams
 - social integration in groups
- no cumulation of tests at the end of the term

In the case of IT Security:

- better grades
- less failure
- earlier drop-out
- improved retention