

## Use Case 1: Scheduling of a given program

For this use case you should either use the SceTris live demo on

<http://score.imp.fu-berlin.de/>

or generate test data on your local SceTris installation. In order to generate test data, see the `Installer.pdf`.

Let's start: first you have to login with your login data, for instance one of the following:

Login Name	Password
admin	score2011
tleveque	score2011
icrnkovi	score2011

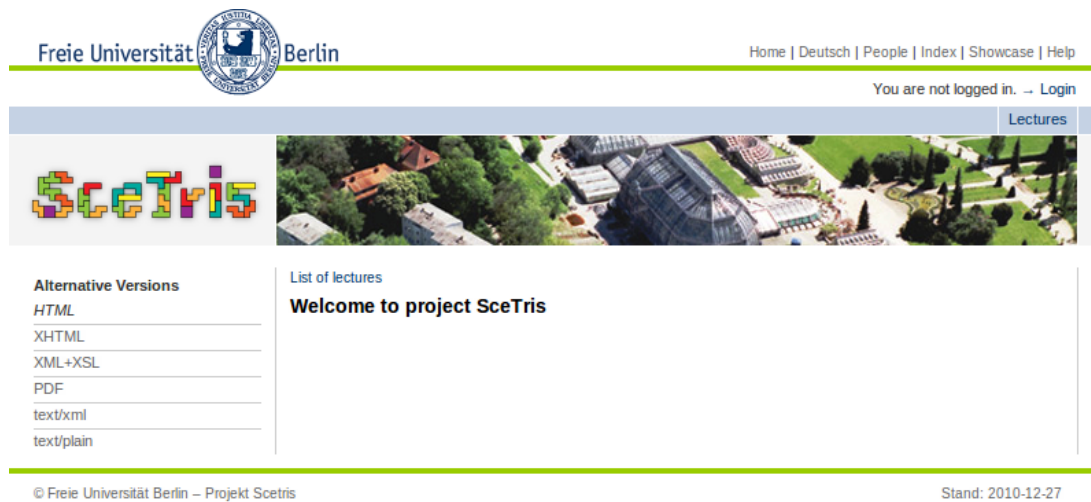


Figure 1: Click on Login



Figure 2: Enter your login data

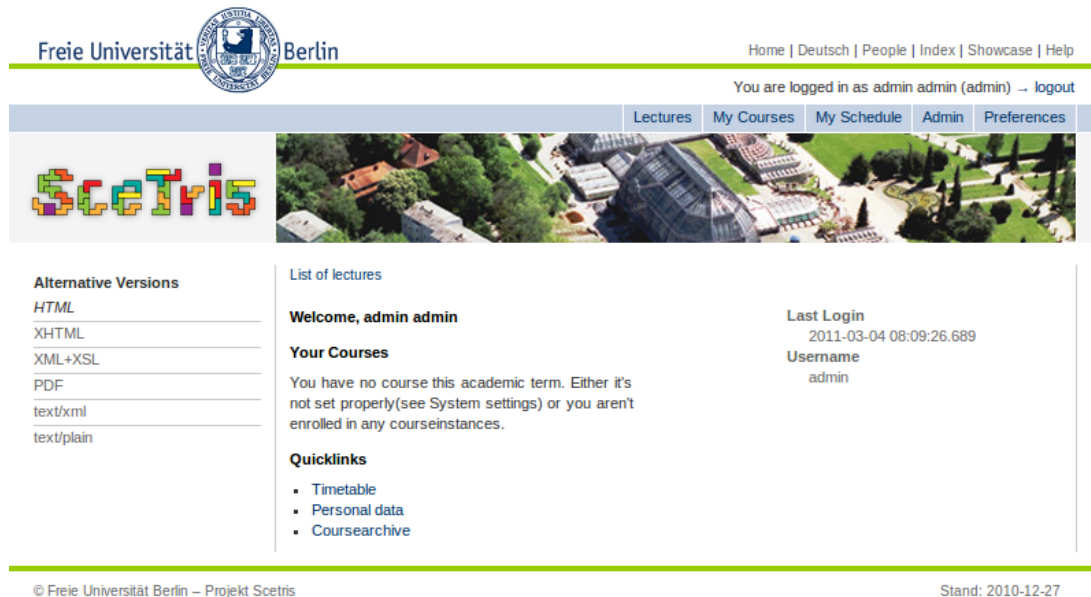
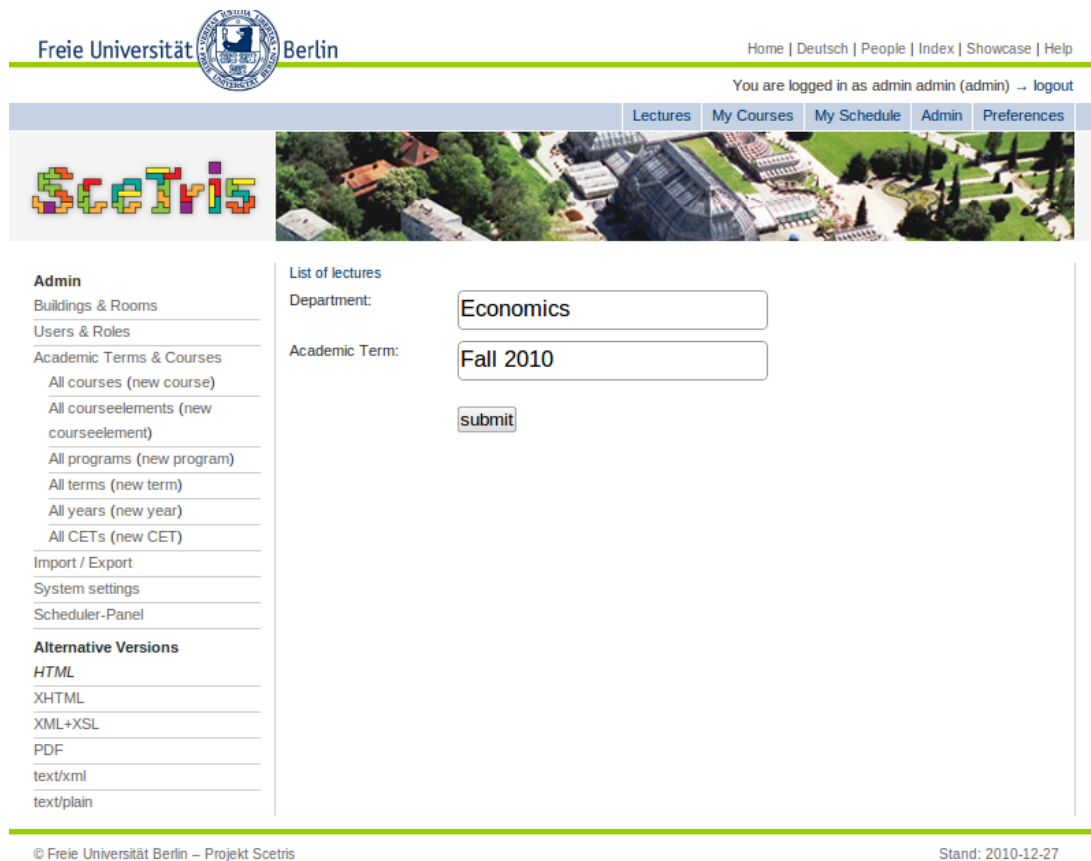


Figure 3: Click on the blue menu bar on Admin and then on Academic Terms & Courses



Figure 4: In the Admin menu on the left side click on Scheduler-panel



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You are logged in as admin admin (admin) → logout

Lectures My Courses My Schedule Admin Preferences

**Admin**

- Buildings & Rooms
- Users & Roles
- Academic Terms & Courses
  - All courses (new course)
  - All courseelements (new courseelement)
  - All programs (new program)
  - All terms (new term)
  - All years (new year)
  - All CETs (new CET)
- Import / Export
- System settings
- Scheduler-Panel

**Alternative Versions**

- HTML
- XHTML
- XML+XSL
- PDF
- text/xml
- text/plain

List of lectures

Department:

Academic Term:

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Figure 5: In order to schedule a given program. Choose for instance Fall 2010 and Economics or English. The department Chemistry is provided for another use case. Next click on submit.

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You are logged in as admin admin (admin) -> logout

Lectures My Courses My Schedule Admin Preferences

**Admin**

- Buildings & Rooms
- Users & Roles
- Academic Terms & Courses
  - All courses (new course)
  - All courseelements (new courseelement)
  - All programs (new program)
  - All terms (new term)
  - All years (new year)
  - All CETs (new CET)
- Import / Export
- System settings
- Scheduler-Panel

**Alternative Versions**

- HTML
- XHTML
- XML+XSL
- PDF
- text/xml
- text/plain

List of lectures

**Statusreport from Program 1**

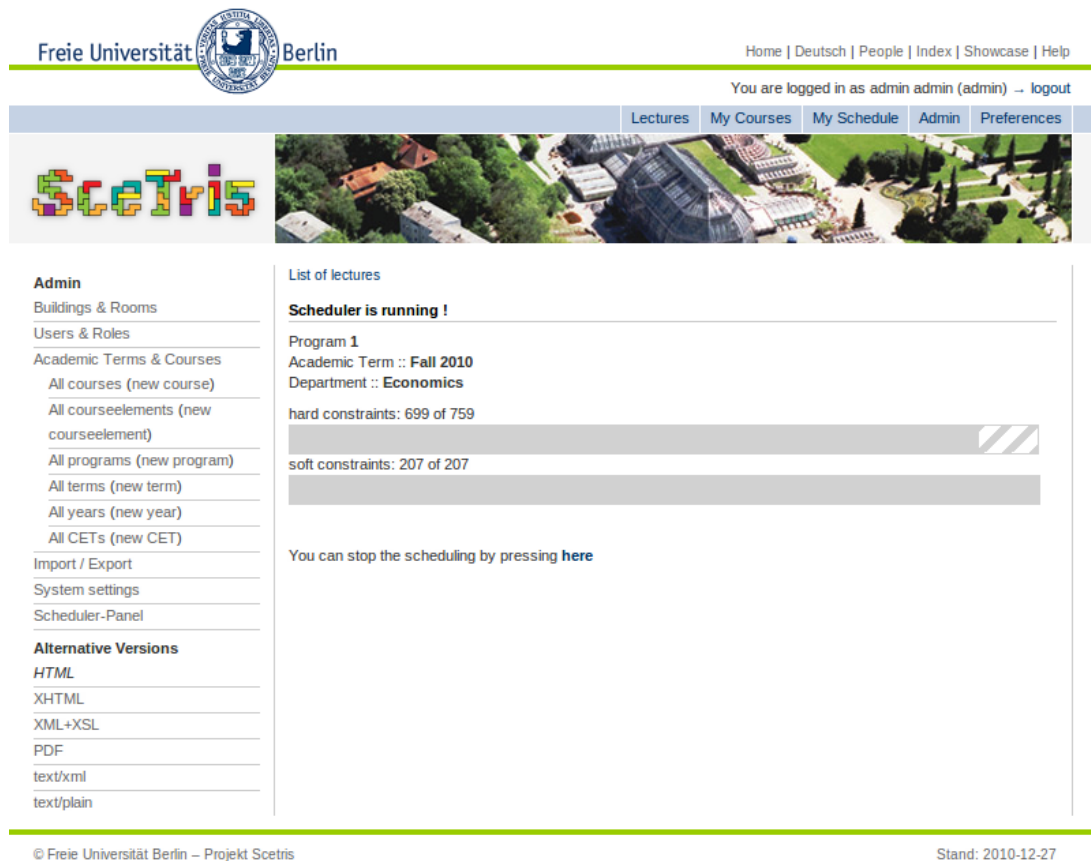
current status :: **never scheduled**

possible actions :: [Start](#)

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Figure 6: The follow up site displays the scheduler panel. Click on start to launch the scheduler.



The screenshot shows the web interface of the SceTris application. At the top, the Freie Universität Berlin logo and name are visible. A navigation bar includes links for Home, Deutsch, People, Index, Showcase, and Help. Below this, a status bar indicates the user is logged in as 'admin admin (admin)' with a 'logout' link. The main interface has a sidebar on the left with categories like 'Admin' (Buildings & Rooms, Users & Roles, Academic Terms & Courses, etc.) and 'Alternative Versions' (HTML, XHTML, XML+XSL, PDF, etc.). The main content area is titled 'List of lectures' and shows 'Scheduler is running !'. It displays details for 'Program 1' (Academic Term: Fall 2010, Department: Economics) and shows progress bars for 'hard constraints: 699 of 759' and 'soft constraints: 207 of 207'. A link 'here' is provided to stop the scheduling process. The footer contains copyright information for Freie Universität Berlin and the project SceTris, along with the date 'Stand: 2010-12-27'.

Figure 7: The scheduler has started. A progress bar is illustrating the number of constraints and how many of them are already resolved. You might notice slight progress in the scheduling process. Click on stop in order to interrupt the scheduling process.

Figure 8: The scheduling has stopped, to show the remaining conflicts in detail click on [here](#).





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You are logged in as admin admin (admin) → [logout](#)

[Lectures](#) | [My Courses](#) | [My Schedule](#) | [Admin](#) | [Preferences](#)

**Admin**  
[Buildings & Rooms](#)  
[Users & Roles](#)  
[Academic Terms & Courses](#)  
[All courses \(new course\)](#)  
[All courseelements \(new courseelement\)](#)  
[All programs \(new program\)](#)  
[All terms \(new term\)](#)  
[All years \(new year\)](#)  
[All CETs \(new CET\)](#)  
[Import / Export](#)  
[System settings](#)  
[Scheduler-Panel](#)  
**Alternative Versions**  
[HTML](#)  
[XHTML](#)  
[XML+XSL](#)  
[PDF](#)  
[text/xml](#)  
[text/plain](#)

[List of lectures](#)  


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**Statusreport from Program 1**  
current status :: **scheduled**  
possible actions :: [Start](#) [Resume](#) [Freeze](#)  


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**Conflicts**  
Lecturer with overlapping Courses



- [Silver, Loraine](#)

Rooms with overlapping Courses

- [Salomon Center - 100 \(LH100\)](#)
- [Salomon Center - 101 \(LH101\)](#)
- [Salomon Center - 102 \(LH102\)](#)
- [Salomon Center - 103 \(R103\)](#)
- [Salomon Center - 104 \(R104\)](#)
- [Wilson Hall - 100 \(LH100\)](#)
- [Wilson Hall - 101 \(LH101\)](#)
- [Wilson Hall - 102 \(LH102\)](#)
- [Wilson Hall - 104 \(R104\)](#)

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Figure 9: The list of remaining conflicts is displayed. In order to resolve the conflicts manual follow the link provided by a displayed constraint.

**Alternative Versions**

HTML

XHTML

XML+XSL

PDF

text/xml

text/plain

[List of lectures](#)

**Loraine Silver**

**Roles**

The user does not have any roles.

**Privileges**

The user does not have any privileges.



Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:00:00	-	-	-	-	-
09:00:00	-	-	-	-	-
10:00:00	-	-	-	-	-
11:00:00	-	-	-	-	-
12:00:00	-	-	-	-	-
13:00:00	-	Mathematics for Engineers II	-	-	-
14:00:00	-	Microeconomics II	-	-	-
15:00:00	-	-	-	-	-
16:00:00	-	-	-	-	-
17:00:00	-	-	-	-	-
18:00:00	-	-	-	-	-
19:00:00	-	-	-	-	-

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Figure 10: The timetable is displayed. You will notice overlapping courses. Courses can be rearranged by clicking on the grey area on top of the course box. Now you can choose a new timeslot for the course.



Active Versions

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SL

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il

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in

[List of lectures](#)

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**Lorraine Silver**

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**Roles**



The user does not have any roles.

**Privileges**

The user does not have any privileges.

Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:00:00					
09:00:00					
10:00:00					
11:00:00					
12:00:00					
13:00:00		Mathematics for Economics II			
14:00:00		Microeconomics II			
15:00:00					
16:00:00					
17:00:00					
18:00:00					
19:00:00					

Figure 11: Visualization of moving courses.

ons

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List of lectures

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**Loraine Silver**

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**Roles**

The user does not have any roles.

**Privileges**

The user does not have any privileges.

Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:00:00	-	-	-	-	-
09:00:00	-	-	-	-	-
10:00:00	-	-	-	-	-
11:00:00	-	-	Mathematics for Economics II	-	-
12:00:00	-	-	-	-	-
13:00:00	-	-	-	-	-
14:00:00	-	Microeconomics II	-	-	-
15:00:00	-	-	-	-	-
16:00:00	-	-	-	-	-
17:00:00	-	-	-	-	-
18:00:00	-	-	-	-	-
19:00:00	-	-	-	-	-

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Figure 12: The courses are now rearranged.

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Lectures My Courses My Schedule Admin Preferences

**Admin**

- Buildings & Rooms
- Users & Roles
- Academic Terms & Courses
  - All courses (new course)
  - All courseelements (new courseelement)
  - All programs (new program)
  - All terms (new term)
  - All years (new year)
  - All CETs (new CET)
- Import / Export
- System settings
- Scheduler-Panel

**Alternative Versions**

- HTML
- XHTML
- XML+XSL
- PDF
- text/xml
- text/plain

**List of lectures**

**Statusreport from Program 1**

current status :: **scheduled**

possible actions :: [Start Resume Freeze](#)

**Conflicts**


Lecturer with overlapping Courses

- Stack, Jeanne
- Greer, James

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Figure 13: When returning to Scheduler-panel you will notice less constraints. Repeat this step, until all constraints are resolved or resume the scheduler. When all constraints are resolved, click on freeze to freeze the program. Its courses are not moved in the scheduling process anymore. For the final step click on publish to make it visible to the students and other users.




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You are logged in as admin admin (admin) → [logout](#)





**Admin**

- Buildings & Rooms
  - [All departments \(new\)](#)
  - [All buildings \(new building\)](#)
  - [All rooms \(new room\)](#)
  - [All features \(new feature\)](#)
- Users & Roles
- Academic Terms & Courses
- Import / Export
- System settings
- Scheduler-Panel

**Alternative Versions**

- [HTML](#)
- [XHTML](#)
- [XML+XSL](#)
- [PDF](#)
- [text/xml](#)
- [text/plain](#)

List of lectures > Admin: Buildings & Rooms > List available rooms

Building	Number	Name	Options
1	100	LH100	<a href="#">[Details]</a> <a href="#">[Edit]</a>
1	101	LH101	<a href="#">[Details]</a> <a href="#">[Edit]</a>
1	102	LH102	<a href="#">[Details]</a> <a href="#">[Edit]</a>
1	103	R103	<a href="#">[Details]</a> <a href="#">[Edit]</a>
1	104	R104	<a href="#">[Details]</a> <a href="#">[Edit]</a>
2	100	LH100	<a href="#">[Details]</a> <a href="#">[Edit]</a>
2	101	LH101	<a href="#">[Details]</a> <a href="#">[Edit]</a>
2	102	LH102	<a href="#">[Details]</a> <a href="#">[Edit]</a>
2	103	R103	<a href="#">[Details]</a> <a href="#">[Edit]</a>
2	104	R104	<a href="#">[Details]</a> <a href="#">[Edit]</a>
3	100	LH100	<a href="#">[Details]</a> <a href="#">[Edit]</a>
3	101	LH101	<a href="#">[Details]</a> <a href="#">[Edit]</a>
3	102	LH102	<a href="#">[Details]</a> <a href="#">[Edit]</a>
3	103	R103	<a href="#">[Details]</a> <a href="#">[Edit]</a>
3	104	R104	<a href="#">[Details]</a> <a href="#">[Edit]</a>
4	100	LH100	<a href="#">[Details]</a> <a href="#">[Edit]</a>

Figure 14: To display the published timetables, click on Admin > Building & Rooms > All Rooms. You can click on [Details] of an arbitrary room.

Lectures
My Courses
My Schedule
Admin
Preferences

**Admin**

Buildings & Rooms

- All departments (new)
- All buildings (new building)
- All rooms (new room)
- All features (new feature)

Users & Roles

Academic Terms & Courses

Import / Export

System settings

Scheduler-Panel

**Alternative Versions**

HTML

XHTML

XML+XSL

PDF

text/xml

text/plain

List of lectures > Admin: > List available rooms >

**Salomon Center, LH100**

**Address**  
420 Collins Avenue Columbus OH 43085

**Department**  
Economics

**Projector**  
1

**Whiteboard**  
1

**Chemical Laboratory Equipment**  
1

**Computer**  
1

**Seat**  
200

Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:00:00		Intermediate Macroeconomics		Public Economics	
09:00:00					History of Economic Thought
10:00:00		Intermediate Microeconomics	Statistics		
11:00:00					
12:00:00					
13:00:00	Advanced Macroeconomic and Finance		Mathematics for Economics II		
14:00:00				Advanced Macroeconomic II	
15:00:00					
16:00:00			Statistics		
17:00:00		Ethics and Economics			
18:00:00					
19:00:00					

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Figure 15: The timetable of a published program.