Semigroups and delay equations, spring 2014

Lecturer
Mats Gyllenberg

Scope
10 sp.

Type
Advanced studies

Prerequisites
Basic knowledge of ordinary differential equations and linear partial differential equations, elements of functional analysis (including the Hahn-Banach, Banach-Steinhaus and closed graph theorems), elements of measure and integration (including the Riesz representation theorems) and a passion for pure mathematics.

Content

The lectures will be based on material that has been published in books and journal articles (see bibliography below).

Lectures
Weeks 3-9 and 11-18, Tuesday 14-16 in room D123 and Wednesday 14-16 in room C122. Two hours of exercise classes per week.

Easter Holiday 17.-23.4.

Exams
Final exam.

Bibliography

Books


Articles


Registration

Did you forget to register?  What to do?

Exercises

Notice: Time and room has been changed by the request of students

<table>
<thead>
<tr>
<th>Group</th>
<th>Day</th>
<th>Time</th>
<th>Place</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Friday</td>
<td>14-16</td>
<td>CK107</td>
<td>Anssi Mirka</td>
</tr>
</tbody>
</table>

Exercises 1  Solutions 1.
Exercises 2  Solutions 2
Exercises 3  Solutions 3
Exercises 4  Solutions 4
Exercises 5  Solutions 5.
Exercises 6  Solutions 6.
Exercises 7  Solutions 7
Exercises 8a  Solutions 8
Exercises 8b
Exercises 8c
Exercises 9a  Solutions 9
Exercises 9b