

# The PhD Programme

## PhD Courses

The following courses are likely to be offered in each of the corresponding semesters.

### First Semester

<b>Course Code</b>	<b>Name of the Course</b>
<b>MA 811</b>	<b>Algebra I</b>
<b>MA 813</b>	<b>Measure Theory</b>
<b>MA 815</b>	<b>Differential Topology</b>
<b>MA 817</b>	<b>Partial Differential Equations I</b>
<b>MA 833</b>	<b>Weak Convergence and Martingale Theory</b>
<b>MA 839</b>	<b>Advanced Commutative Algebra</b>
<b>MA 861</b>	<b>Combinatorics-I</b>
<b>MA 863</b>	<b>Theoretical Statistics I</b>
<b>MA 867</b>	<b>Statistical Modelling- I</b>

### Second Semester

<b>Course Code</b>	<b>Name of the Course</b>
<b>MA 812</b>	<b>Algebra II</b>
<b>MA 814</b>	<b>Complex Analysis</b>



**Course Code**

**Name of the Course**

**MA 841**

**Topics in Algebra I**

**MA 843**

**Topics in Analysis I**

**MA 845**

**Topics in Combinatorics I**

**MA 847**

**Topics in Geometry I**

**MA 849**

**Topics in Topology I**

**MA 851**

**Topics in Number Theory I**

**MA 853**

**Topics in Differential Equations I**

**MA 855**

**Topics in Numerical Analysis I**

**MA 857**

**Topics in Probability I**

**MA 859**

**Topics in Statistics I**

**MA 864**

**Topics in Category Theory I**

**MAS 801**

**Seminar**

Second Semester

**Course Code**

**Name of the Course**

**MA 842**

**Topics in Algebra II**

**MA 844**

**Topics in Analysis II**

<b>Course Code</b>	<b>Name of the Course</b>
<b>MA 846</b>	<b>Topics in Combinatorics II</b>
<b>MA 848</b>	<b>Topics in Geometry II</b>
<b>MA 850</b>	<b>Topics in Topology II</b>
<b>MA 852</b>	<b>Topics in Number Theory II</b>
<b>MA 854</b>	<b>Topics in Differential Equations II</b>
<b>MA 856</b>	<b>Topics in Numerical Analysis II</b>
<b>MA 858</b>	<b>Topics in Probability II</b>
<b>MA 860</b>	<b>Topics in Statistics II</b>
<b>MA 865</b>	<b>Topics in Category Theory II</b>
<b>MAS 802</b>	<b>Seminar</b>