### Course of Doctoral Studies

<table>
<thead>
<tr>
<th>Course title</th>
<th>Field of science (branch) code</th>
<th>University / Faculty</th>
<th>Institute / Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climate Change and the Climate System Modeling</td>
<td>Natural Sciences, (Physical Geography) N006</td>
<td>Vilnius University / Faculty of Chemistry and Geosciences</td>
<td>Institute of Geosciences / Department of Hydrology and Climatology</td>
</tr>
</tbody>
</table>

### Study methods

<table>
<thead>
<tr>
<th>Study methods</th>
<th>Number of credits allocated</th>
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<th>Number of credits allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
<td></td>
<td>Consultations</td>
<td>1</td>
</tr>
<tr>
<td>Individual</td>
<td>8</td>
<td>Seminars</td>
<td>1</td>
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</tbody>
</table>

### Course annotation

The aim of the course is to provide knowledge about the causes of climate change, the history of global and Lithuanian climate, general principles of climate system modeling, models structure, parameterization and application possibilities in various climate researches. To provide knowledge about climate forecasting as well as the sensitivity and vulnerability of natural and social spheres to climate change and their adaptive potential, ways to adapt to climate change.


Sensitivity of natural and socio-economic sectors to climate change and their vulnerability. Climate change mitigation measures. Adaptation of natural and social spheres to the changing climate. International and national climate change mitigation and adaptation policy.

### Required readings


### Consulting lecturers

<table>
<thead>
<tr>
<th>Consulting lecturers name, surname</th>
<th>Degree</th>
<th>The most important works in the field of science (branch) have been published during the last 5 years</th>
</tr>
</thead>
</table>
Egidijus Rimkus


Approved by the Doctoral Committee for Physical Geography (N006) on 9th of March 2021, protocol no. (4.20 E) 610000-KT-24

Committee Chairman assoc. prof. dr. D. Pupienis