<table>
<thead>
<tr>
<th><strong>Subject name</strong></th>
<th>Farming Systems</th>
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<tbody>
<tr>
<td><strong>Subject code</strong></td>
<td>R.9.s2.FAR.SM.RROXY</td>
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<tr>
<td><strong>Department</strong></td>
<td>Agrotechnology and Agricultural Ecology</td>
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<tr>
<td><strong>Faculty</strong></td>
<td>Agriculture and Economics</td>
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<tr>
<td><strong>Subject supervisor/Lecturer</strong></td>
<td>Dr Agnieszka Synowiec</td>
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**General information**

<table>
<thead>
<tr>
<th><strong>Semester</strong></th>
<th>winter</th>
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<tbody>
<tr>
<td><strong>ECTS credits</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Lectures total</strong></td>
<td>15 hrs</td>
</tr>
<tr>
<td><strong>Classes</strong></td>
<td>15 hrs</td>
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The aim of this study is to show main differences between farming systems: conventional, integrated and organic. It means differences in the role of crop rotations, soil cultivation, fertilization and plant protection in these systems. As for soil cultivation and crop rotation the study will acquaint students with action and influence on soil of farm machinery used in the traditional and modified soil cultivation systems: plough, non-plough and no-till.

After completing this course student will be able to name differences between farming systems, choose proper crop-plants to crop rotation, according to their soil and climatic requirements.

**Objective and general description**

**Lectures**
1. Main differences between farming systems
2. Main differences between farming systems
3. The role of crop rotation in different systems
4. The role of crop rotation in different systems
5. Cultivation of soil depending on system (plough, non-plough, no-till)
6. Cultivation of soil depending on system (plough, non-plough, no-till)
7. The influence of cultivation system on the soil properties
8. The usage of fertilizers (mineral, organic and natural)
9. The influence of fertilizers on environment
10. Significance of livestock
11. Control of pests in different systems
12. Control of pests in different systems
13. The influence of each farming system on environment
14. The influence of each farming system on environment
15. Profitability of different farming systems

**Classes**
1-15. Each student will be making a project of crop rotation for a chosen farming system connected with technological card of soil cultivation, fertilization and control of pathogens.

**Assessment method**
- Lectures: Oral exam
- Classes: Project

**References**
| Prague.  