230804 - AIR - Astronomy & Radioastronomy

Learning objectives of the subject

- To provide an introduction to astronomy and astrophysics.
- To apply the basic concepts of physics to studying the universe.
- To provide an introduction to a general knowledge of astronomy and space science.
- Basic contents of the course are: Observational and computational techniques in astronomy.
<table>
<thead>
<tr>
<th>Study load</th>
<th>Total learning time: 150h</th>
<th>Hours large group: 52h</th>
<th>34.67%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Self study: 98h</td>
<td>65.33%</td>
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</tbody>
</table>
## Content

1. **Spherical astronomy**

   Degree competences to which the content contributes:

2. **Observational techniques: optical and radioastronomy**

   Degree competences to which the content contributes:

3. **Celestial mechanics**

   Degree competences to which the content contributes:

4. **Observational properties of stars**

   Degree competences to which the content contributes:

5. **Stellar evolution**

   Degree competences to which the content contributes:

6. **Binary systems**

   Degree competences to which the content contributes:

7. **The Milky Way**

   Degree competences to which the content contributes:

8. **Galaxies**

   Degree competences to which the content contributes:

9. **Origin and evolution of the Universe: the Big Bang**

   Degree competences to which the content contributes:
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Qualification system
- Final examination 80%
- Practical applications 20%

Bibliography

Basic:

Complementary:

Others resources: