32118 - RSEN - Remote Sensing

Coordination unit: 230 - ETSETB - Barcelona School of Telecommunications Engineering
Teaching unit: 739 - TSC - Department of Signal Theory and Communications
Academic year: 2015
Degree: ERASMUS MUNDUS MASTER'S DEGREE IN RESEARCH ON INFORMATION AND COMMUNICATION TECHNOLOGIES (Syllabus 2009). (Teaching unit Optional)
ECTS credits: 6 Teaching languages: English

Teaching staff
Coordinator: Camps, Adriano
Others: Broquetas Ibars, A; Camps Carmona, A. J; Rocadenbosch, F.

Prior skills
Electromagnetic fields, communication systems and RF/microwaves, antennas, filters, elementary signal processing

Learning objectives of the subject
<table>
<thead>
<tr>
<th>Content</th>
<th>Learning time</th>
<th>Theory classes</th>
<th>Practical classes</th>
<th>Laboratory classes</th>
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<tr>
<td><strong>(ENG) 1. Introduction and Space Platforms</strong></td>
<td></td>
<td>3h</td>
<td></td>
<td>2h</td>
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<tr>
<td><strong>(ENG) 2. Space Missions: Types of Orbits</strong></td>
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<td>3h</td>
<td></td>
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<tr>
<td><strong>(ENG) 3. Mapping projections and Geographic Information Systems (GIS)</strong></td>
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<tr>
<td><strong>(ENG) 4. Radar Sensors</strong></td>
<td>13h</td>
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<td>4h</td>
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<tr>
<td><strong>(ENG) 5. Optical and Infrared Sensors. Lidars</strong></td>
<td>11h</td>
<td>6h</td>
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<td>2h</td>
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<tr>
<td><strong>(ENG) 6. Microwave Radiometers</strong></td>
<td>11h</td>
<td>6h</td>
<td>3h</td>
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(ENG) 7. Image Characteristics and Post-processing

Learning time: 5h
  Theory classes: 3h
  Laboratory classes: 2h

Bibliography

Basic:


Others resources: