Nowadays Color Science is an integral component of nearly every industry manufacturing colored products: printing, desktop publishing, electronic imaging, digital photography, textile, paints, plastics, etc. Recent advances in colorimetry and color technology have been caused by the new developments appeared in this digital age. Color Imaging has evolved from the classical broadband description to a spectral representation.

The course focuses on the main topics of the colorimetry, color imaging and color technology. It starts with the study of specification, measurement and reproduction of color. The problem of measuring color quality using color difference formulas is also covered, showing the latest developments. Digital technologies for capture and delivery color are introduced together with Color Management Systems, the modern solution of a complete color reproduction system. Finally the techniques and developments to obtain spectral images are presented. Numerous examples and applications are described.
### Continguts

<table>
<thead>
<tr>
<th>Section</th>
<th>Competències de la titulació a les que contribueix el contingut:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color Specification</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Color Measurement</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Color differences</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Color reproduction</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Digital color imaging systems</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Color management systems</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Multiespectral Imaging</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Future trends and applications</strong></td>
<td></td>
</tr>
</tbody>
</table>
32075 - CTECH - Tecnologia del Color

**Sistema de qualificació**

The evaluation procedure of the course will include the following items to compute the final mark:

- Attendance (20%)
- Deliverables (40%): Deliverables that will be proposed along the course (Resolution of problems, calculations of some of the presented topics etc.)
- Presentation of a paper (40%): Short presentation of an original journal paper proposed by the teacher at the end of the course.

**Normes de realització de les activitats**

The usual in University teaching

**Bibliografia**

**Bàsica:**


**Complementària:**