

## 230318 - PROJ-ICT4D - Cooperation Project with Wifi Technologies

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |         |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Coordinating unit: | 230 - ETSETB - Barcelona School of Telecommunications Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |         |
| Teaching unit:     | 744 - ENTEL - Department of Network Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |         |
| Academic year:     | 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |         |
| Degree:            | BACHELOR'S DEGREE IN TELECOMMUNICATIONS SCIENCE AND TECHNOLOGY (Syllabus 2010). (Teaching unit Optional)<br>BACHELOR'S DEGREE IN AUDIOVISUAL SYSTEMS ENGINEERING (Syllabus 2009). (Teaching unit Optional)<br>BACHELOR'S DEGREE IN ELECTRONIC SYSTEMS ENGINEERING (Syllabus 2009). (Teaching unit Optional)<br>BACHELOR'S DEGREE IN TELECOMMUNICATIONS SYSTEMS ENGINEERING (Syllabus 2010). (Teaching unit Optional)<br>BACHELOR'S DEGREE IN NETWORK ENGINEERING (Syllabus 2010). (Teaching unit Optional)<br>BACHELOR'S DEGREE IN TELECOMMUNICATIONS TECHNOLOGIES AND SERVICES ENGINEERING (Syllabus 2015). (Teaching unit Optional) |                     |         |
| ECTS credits:      | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Teaching languages: | Catalan |

### Teaching staff

|              |                               |
|--------------|-------------------------------|
| Coordinator: | Josep Pegueroles              |
| Others:      | Josep Pegueroles<br>Eva Vidal |

### Prior skills

knowledge of IP networking and wireless technologies , but if not, the content taught in the seminary is sufficient to carry out the objectives of the course.

### Learning objectives of the subject

Understand how ICT can be key projects Cooperation Desenvolpament through the preparation of a project proposal with the implementation of laboratory technologies .

### Study load

|                          |                    |     |        |
|--------------------------|--------------------|-----|--------|
| Total learning time: 50h | Hours small group: | 20h | 40.00% |
|                          | Self study:        | 30h | 60.00% |

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### Content

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|---------------------------------------------------------|---------------------------------------------|
| Session 1: Introduction to ICT4D                        | Learning time: 4h<br>Laboratory classes: 4h |
| Description:<br>content english                         |                                             |
| Session 2: Wireless technologies and project management | Learning time: 4h<br>Laboratory classes: 4h |
| Description:<br>content english                         |                                             |
| Session 3: Laboratory with Access Points                | Learning time: 4h<br>Laboratory classes: 4h |
| Description:<br>content english                         |                                             |
| Session 4: Laboratory with Nano and Picostations        | Learning time: 4h<br>Laboratory classes: 4h |
| Description:<br>content english                         |                                             |
| Session 5: Laboratory with CMS                          | Learning time: 4h<br>Laboratory classes: 4h |
| Description:<br>content english                         |                                             |

### Bibliography