330601 - MPM - Modeling in Mineral Processing

Coordinating unit: 330 - EPSEM - Manresa School of Engineering
Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering
Academic year: 2018
Degree: MASTER'S DEGREE IN MINING ENGINEERING (Syllabus 2013). (Teaching unit Compulsory)
ECTS credits: 5
Teaching languages: Catalan, Spanish

Teaching staff
Coordinator: Oliva Moncunill, Josep

Degree competences to which the subject contributes

Specific:
1. (ENG) Capacitat per planificar, dissenyar i gestionar instal·lacions de tractaments de recursos minerals.
2. (ENG) Coneixement adequat de la tecnologia d'explotació de recursos minerals.
3. (ENG) Coneixement de sistemes de control i automatismes.

Transversal:
4. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 1. Analyzing the world’s situation critically and systemically, while taking an interdisciplinary approach to sustainability and adhering to the principles of sustainable human development. Recognizing the social and environmental implications of a particular professional activity.
5. TEAMWORK - Level 1. Working in a team and making positive contributions once the aims and group and individual responsibilities have been defined. Reaching joint decisions on the strategy to be followed.
6. EFFECTIVE USE OF INFORMATION RESOURCES - Level 1. Identifying information needs. Using collections, premises and services that are available for designing and executing simple searches that are suited to the topic.

Learning objectives of the subject

Study load

<table>
<thead>
<tr>
<th>Total learning time: 125h</th>
<th>Hours large group: 0h</th>
<th>0.00%</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group: 45h</td>
<td>36.00%</td>
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<tr>
<td></td>
<td>Hours small group: 0h</td>
<td>0.00%</td>
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<tr>
<td></td>
<td>Guided activities: 0h</td>
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<tr>
<td></td>
<td>Self study: 80h</td>
<td>64.00%</td>
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## Content

<table>
<thead>
<tr>
<th>Title</th>
<th>Learning time</th>
<th>Description</th>
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</thead>
</table>
| **30h** | Theory classes: 5h 24m  
Laboratory classes: 5h 24m  
Self study: 19h 12m | content english |
| **10h** | Theory classes: 1h 48m  
Laboratory classes: 1h 48m  
Self study: 6h 24m | content english |
| **15h** | Theory classes: 2h 42m  
Laboratory classes: 2h 42m  
Self study: 9h 36m | content english |
| **25h** | Theory classes: 4h 30m  
Laboratory classes: 4h 30m  
Self study: 16h | content english |
### Planning of activities

<table>
<thead>
<tr>
<th>Name English</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>30h</td>
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<tr>
<td></td>
<td>Laboratory classes: 15h</td>
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<tr>
<td></td>
<td>Self study: 15h</td>
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<tr>
<td></td>
<td>32h</td>
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<tr>
<td></td>
<td>Theory classes: 2h</td>
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<td>Self study: 30h</td>
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<tr>
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<td>43h</td>
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<td>Practical classes: 8h</td>
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<td>Self study: 35h</td>
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Bibliography

Basic:


Complementary:


