

33105 - MPIOG - Industrial Raw Materials of Geological Origin

Coordinating unit: 330 - EPSEM - Manresa School of Engineering
 Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering
 Academic year: 2019
 Degree: MASTER'S DEGREE IN NATURAL RESOURCE ENGINEERING (Syllabus 2008). (Teaching unit Optional)
 MASTER'S DEGREE IN NATURAL RESOURCE ENGINEERING (Syllabus 2015). (Teaching unit Optional)
 MASTER'S DEGREE IN NATURAL RESOURCE ENGINEERING (Syllabus 2009). (Teaching unit Optional)
 ECTS credits: 5 Teaching languages: Spanish

Teaching staff

Coordinator: PURA ALFONSO ABELLA - DAVID PARCERISA DUOCASTELLA

Degree competences to which the subject contributes

Specific:

1. (ENG) Utilitzar els materials geològics en processos industrials d'alt valor afegit.

Learning objectives of the subject

Study load

Total learning time: 45h	Hours large group:	30h	66.67%
	Hours medium group:	15h	33.33%

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Content

(ENG) 1. Estudi de les matèries primeres: mètodes analítics.

Degree competences to which the content contributes:

(ENG) 2. Matèries primeres metal·lúrgiques.

Degree competences to which the content contributes:

(ENG) 3. Matèries primeres per a la construcció: roques ornamentals, àrids, ciment i formigó.

Degree competences to which the content contributes:

(ENG) 4. Materials ceràmics.

Degree competences to which the content contributes:

(ENG) 5. Àrids per a la fabricació de vidre.

Degree competences to which the content contributes:

(ENG) 6. L'aprofitament energètic dels recursos geològics.

Degree competences to which the content contributes:

Bibliography

Basic:

Bustillo, M.; Calvo, J. P.; Fueyo, L. Rocas industriales: tipología, aplicaciones en la construcción y empresas del sector. Madrid: Rocas y Minerales, 2001. ISBN 8492312831.

Kingery, W. D.; Bowen, H. K.; Uhlmann, D. R. Introduction to ceramics. 2nd ed. New York: John Wiley and Sons, 1976. ISBN 0471478601.

López Jimeno, C., ed. Manual de rocas ornamentales: prospección, explotación, elaboración y colocación. 2ª ed. Madrid: E.T.S. de Ingenieros de Minas de Madrid, LOEMCO Federación Española de la Piedra Natural, 1996. ISBN 8460549577.

Taylor, H. F. W. Cement chemistry. 2nd ed. London: Thomas Telford, 1997. ISBN 0727725920.