

370723 - PONEUROC - Neurocognitive Optometric Procedures for School Success

Coordinating unit: 370 - FOOT - Terrassa School of Optics and Optometry
Teaching unit: 731 - OO - Department of Optics and Optometry
Academic year: 2018
Degree: MASTER'S DEGREE IN OPTOMETRY AND VISION SCIENCES (Syllabus 2012). (Teaching unit Optional)
ECTS credits: 3 Teaching languages: Catalan, Spanish

Teaching staff

Coordinator: Augé Serra, Montserrat (<http://futur.upc.edu/MontserratAugeSerra>)
Others: Augé Serra, Montserrat (<http://futur.upc.edu/MontserratAugeSerra>)
Fransoy Bel, Marta (<http://futur.upc.edu/MartaFransoyBel>)

Degree competences to which the subject contributes

Transversal:

1. ENTREPRENEURSHIP AND INNOVATION: Being aware of and understanding how companies are organised and the principles that govern their activity, and being able to understand employment regulations and the relationships between planning, industrial and commercial strategies, quality and profit.
2. SUSTAINABILITY AND SOCIAL COMMITMENT: Being aware of and understanding the complexity of the economic and social phenomena typical of a welfare society, and being able to relate social welfare to globalisation and sustainability and to use technique, technology, economics and sustainability in a balanced and compatible manner.
3. FOREIGN LANGUAGE: Achieving a level of spoken and written proficiency in a foreign language, preferably English, that meets the needs of the profession and the labour market.
4. TEAMWORK: Being able to work in an interdisciplinary team, whether as a member or as a leader, with the aim of contributing to projects pragmatically and responsibly and making commitments in view of the resources that are available.
5. EFFECTIVE USE OF INFORMATION RESOURCES: Managing the acquisition, structuring, analysis and display of data and information in the chosen area of specialisation and critically assessing the results obtained.

Teaching methodology

Learning objectives of the subject



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Study load

Total learning time: 24h	Hours large group:	0h	0.00%
	Hours medium group:	8h 06m	33.75%
	Hours small group:	15h 54m	66.25%
	Guided activities:	0h	0.00%
	Self study:	0h	0.00%

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Content

(ENG) -INTRODUCCIÓ A L'OPTOMETRIA NEUROCOGNITIVA	Learning time: 6h Theory classes: 3h Self study : 3h
(ENG) -AMPLIACIÓ DE LES TEORIES DEL DESENVOLUPAMENT COGNITIU	Learning time: 6h Theory classes: 3h Self study : 3h
(ENG) -HABILITATS D'APRENTATGE	Learning time: 6h Theory classes: 1h 30m Laboratory classes: 1h 30m Self study : 3h
(ENG) -MODEL INTERDISCIPLINARI D'APRENTATGE	Learning time: 12h Theory classes: 3h Self study : 9h
(ENG) -PROCÉS DE DESENVOLUPAMENT DE LA LATERALITAT	Learning time: 9h Theory classes: 1h 30m Laboratory classes: 1h 30m Self study : 6h
(ENG) -TRASTORNS D'ATENCIÓ I HIPERACTIVITAT	Learning time: 9h Theory classes: 1h 30m Laboratory classes: 1h 30m Self study : 6h



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(ENG) -DISLÈXIA	Learning time: 9h Theory classes: 1h 30m Laboratory classes: 1h 30m Self study : 6h
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Qualification system

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Bibliography

Basic:

- Augé Serra, M.; Fransoy Bel, M. "Visión y aprendizaje (I): detección de disfunciones visuales". Logopèdia: revista del Col·legi de Logopedes de Catalunya. Núm. 19 (2010), p. 15-18.
- Augé, M.; Fransoy, M.; Quevedo, LI. "Visión y aprendizaje (II): detección de disfunciones visuales y de escucha". Ver y oír. Vol. 28, núm. 240 (2011), p. 16-19.
- Augé, M.; Quevedo, LI. "Alteraciones en el procesamiento de la información visual". Ver y oír. Vol. 26, núm. 233 (2009), p. 95.
- COOOC professional. Visió i Aprenentatge (I) optometria neurocognitiva a l'etapa escolar [on line]. Barcelona: Col·legi Oficial d'Òptics i Optometristes de Catalunya, 2013 [Consultation: 07/04/2014]. Available on: <http://www.coooc.cat/optometristescat/separata4_2013/separata4_2013.html>.
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Complementary:

- Barry, S.R. Ver en estéreo: una aproximación científica a la visión en tres dimensiones. Madrid: BGA Asesores/SIODEC, 2012. ISBN 9788415226130.
- Castells, M.; Castells, P. TDAH: un nuevo enfoque: cómo tratar la falta de atención y la hiperactividad. Barcelona: Península, 2012. ISBN 9788499421445.
- Ferré, J.; Aribau, E. El desarrollo neurofuncional del niño y sus trastornos: visión, aprendizaje y otras funciones cognitivas. Barcelona: Lebón, 2002. ISBN 8489963193.
- Ferré, Jorge [et al]. El desarrollo de la lateralidad infantil: niño diestro - niño zurdo. 3ª ed. Barcelona: Lebón, 2004. ISBN 84-89963-06-1.
- López Juez, María J. ¿Por qué yo no puedo?: fundamentos biológicos de las dificultades del aprendizaje. [Madrid]: María J. López Juez, 2010. ISBN 9788461392476.
- Vergara Giménez, M.P. Tanta inteligencia, tan poco rendimiento. 2ª ed. [Madrid]: Rona Visión, 2008. ISBN 9788461258420.
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- Palomo-Álvarez, C.; Puell, M.C. "Accommodative function in school children with reading difficulties". Graefe's archive for clinical and experimental ophthalmology [on line]. Vol. 246, núm. 12 (2008), p. 1769-1774 [Consultation: 07/04/2014]. Available on: <<http://link.springer.com/article/10.1007/s00417-008-0921-5>>.
- Palomo-Álvarez, C.; Puell, M.C. "Binocular function in school children with reading difficulties". Graefe's archive for clinical and experimental ophthalmology [on line]. Vol. 248, núm. 6 (2010), p. 885-892 [Consultation: 07/04/2014]. Available on: <<http://link.springer.com/article/10.1007/s00417-009-1251-y>>.
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- Fernández, M.F.; Llopis, A.M.; Pablo de Riesgo, C. La dislexia: origen, diagnóstico y recuperación. 15ª ed., renovada. Madrid: CEPE, 2002. ISBN 84-85252-12-8.
- Amos, John F. Diagnosis and management in vision care. Boston [etc.]: Butterworths, cop. 1987. ISBN 0-409-95082-3.
- Evans, Bruce J.W. Binocular vision [on line]. London: Elsevier, cop. 2005 [Consultation: 07/04/2014]. Available on: <<http://www.sciencedirect.com/science/book/9780750688505>>. ISBN 0750688505.
- Grosvenor, Theodore P. Primary care optometry. 5th ed. Boston [etc.]: Butterworth-Heinemann, cop. 2007. ISBN 9780750675758.
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