Course guides
370723 - PONEUROC - Neurocognitive Optometric Procedures for School Success

Last modified: 14/07/2020

Unit in charge: Terrassa School of Optics and Optometry
Teaching unit: 731 - OO - Department of Optics and Optometry.

Degree: MASTER'S DEGREE IN OPTOMETRY AND VISION SCIENCES (Syllabus 2012). (Optional subject).

Academic year: 2020 **ECTS Credits:** 3.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: 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

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LEARNING OBJECTIVES OF THE SUBJECT

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STUDY LOAD

Type	Hours	Percentage
Hours small group	15,9	66.25
Hours medium group	8,1	33.75

Total learning time: 24 h

CONTENTS

(ENG) -INTRODUCCIÓ A L'OPTOMETRIA NEUROCOGNITIVA

Full-or-part-time: 6h
Theory classes: 3h
Self study : 3h

(ENG) -AMPLIACIÓ DE LES TEORIES DEL DESENVOLUPAMENT COGNITIU

Full-or-part-time: 6h
Theory classes: 3h
Self study : 3h

(ENG) -HABILITATS D'APRENENTATGE

Full-or-part-time: 6h
Theory classes: 1h 30m
Laboratory classes: 1h 30m
Self study : 3h

(ENG) -MODEL INTERDISCIPLINARI D'APRENENTATGE

Full-or-part-time: 12h
Theory classes: 3h
Self study : 9h

(ENG) -PROCÉS DE DESENVOLUPAMENT DE LA LATERALITAT

Full-or-part-time: 9h
Theory classes: 1h 30m
Laboratory classes: 1h 30m
Self study : 6h

(ENG) -TRASTORNS D'ATENCIÓ I HIPERACTIVITAT

Full-or-part-time: 9h
Theory classes: 1h 30m
Laboratory classes: 1h 30m
Self study : 6h

(ENG) -DISLÈXIA

Full-or-part-time: 9h
Theory classes: 1h 30m
Laboratory classes: 1h 30m
Self study : 6h

GRADING SYSTEM

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BIBLIOGRAPHY

Basic:
- 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.
- 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, Ll. "Visión y aprendizaje (II): detección de disfunciones visuales y de escucha". Ver y oir. Vol. 28, núm. 240 (2011), p. 16-19.
- Augé, M.; Quevedo, Ll. "Alteraciones en el procesamiento de la información visual". Ver y oir. Vol. 26, núm. 233 (2009), p. 95.
- COOOC professional. Visió i aprenentatge (II) [on line]. Barcelona: Col·legi Oficial d'Òptics i Optometristes de Catalunya, Juny 2014 [Consultation: 01/12/2016]. Available on: http://www.coooc.cat/fotos/separata%205_%202014_alta.pdf.

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.
- Tomatis, A.; Sellin, L. El fracaso escolar. Barcelona: Biblaria, 1996. ISBN 9788489095090.
- Allen, P.; Evans, B.; Wilkins, A. "Vision and reading difficulties. Part I, specific learning difficulties and vision". Optometry today [on line]. [Consultation: 07/04/2014]. Available on: http://www.optometry.co.uk/clinical/details?aid=584.
- 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.
- Scheiman, M.M.; Rouse, M.W. Optometric management of learning-related vision problems. 2nd ed. St. Louis [etc.]: Mosby Elsevier,

cop. 2006. ISBN 0-323-02965-5.
- Evans, Bruce. "The role of the optometrist in dislexia. Part I, specific learning difficulties". Optometry today [on line]. 2004 [Consultation: 07/04/2014]. Available on: http://www.optometry.co.uk/clinical/details?aid=347.
- Fernández, M.F.; Llopis, A.M.; Pablo de Riesgo, C. La dislexia: orígen, 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.
- Moore, Bruce D. Eye care for infants and young children. Boston: Butterworth-Heinemann, 1997. ISBN 075069646X.
- Scheiman, Mitchell; Wick, Bruce. Clinical management of binocular vision: heterophoric, accommodative, and eye movement disorders [on line]. Philadelphia: J.B. Lippincott Co, 1994 [Consultation: 21/12/2020]. Available on: http://ovidsp.ovid.com/ovidweb.cgi?T=JS&NEWS=n&CSC=Y&PAGE=booktext&D=books&AN=02148837$&XPATH=/PG(0)&EPUB=Y. ISBN 0397511337.
- Costa, M.; López, E. Educación para la salud: una estrategia para cambiar los estilos de vida. Madrid: Pirámide, cop. 1996. ISBN 84-368-1029-5.