

370524 - CASOS - Clinical Cases in Optometry

Coordinating unit: 370 - FOOT - Terrassa School of Optics and Optometry
Teaching unit: 731 - OO - Department of Optics and Optometry
Academic year: 2019
Degree: BACHELOR'S DEGREE IN OPTICS AND OPTOMETRY (Syllabus 2009). (Teaching unit Compulsory)
ECTS credits: 6 Teaching languages: Catalan

Teaching staff

Coordinator: MIREIA PACHECO CUTILLAS (<http://futur.upc.edu/MireiaPachecoCutillas>)
MARIA ELVIRA PERIS MARCH (<http://futur.upc.edu/MariaElviraPerisMarch>)

Degree competences to which the subject contributes

Specific:

12. Knowing how to do clinical examinations and interpret the results
13. Establish protocols, analyze results and elaborate the corresponding reports
14. Detecting the need to derive the patient with the corresponding report to the appropriate professional and be able to collaborate keeping the follow-up of the patient
15. Acquire skills in patient care
16. Communicate and inform the patient of all the tests to be performed and the results of clinical evaluation
17. Applying an specific anamnesis to extract relevant information.
18. Apply the techniques of detection of ocular and systemic diseases with visual affection, from the etiology, signs, symptoms and epidemiology.
19. Detecting adverse reactions caused by systemic and topical medication.
20. Interpret the registers obtained with different techniques. Determine the status of ocular structures.
21. Value the need to realize complementary tests. Realize and interpret correctly the results of these tests (visual field, layouts,...)
22. Prioritize treatment options.
23. Individualize treatment planning.
24. Know interpret functional and health test results of the visual system.
25. Follow up of eye diseases with involvement. (Follow up of patients with diseases affecting visual)
26. Transmit the user the necessary information for make a good use of the compensator system (prescription glasses, protective glasses or optical aids)
27. Do the following-up of the treatment and value the satisfaction of the user

Generical:

1. To think critically about clinical ethical issues, involved in the political and social exercise of optometry
2. Extract the main points of a text or any source of information (oral or written)

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3. Synthesize and organize information to convey it effectively orally and / or written
4. Display information orally and in writing of reasonably and coherent.
5. Develop empathy with people
6. Interpret and use non-verbal language
7. Judgments (ratings) reports and surveys
8. Locate new information and the interpretation of it in its context.
9. Value and incorporate technological necessary improvements for the proper development of the profession
10. Encourage methodical work, rigorous, consistent and innovative
11. Working with evidence, methodology and rigour.

Teaching methodology

This subject will be encouraged as much as possible, combining lectures with informal cooperative learning activities. For the clinical sessions we propose work in small groups to get the most out of the subject .

Learning objectives of the subject

Stimulate analysis and clinical reasoning through the presentation of clinical cases that will help develop strategies for the diagnosis and treatment of various visual problems presented.

On finishing the subject clinical cases in optometry, the students must have achieved the following objectives (taken from BOE):

- Develop communication abilities, records of data and development of clinic stories.
- Acquire skills for the interpretation of the results of the visual test, to establish the the most appropriate diagnoses and treatment.
- Ability to prescribe, control and make the follow up of the optic corrections.
- Know the actual techniques of eye surgery and to have the capacity to realize eye test Included in pre-and post-test surgical operation.
- Apply and interpret the instrumental test related with problems of visual health.
- Acquire the necessary clinic abilities for the examination and treatment of patients.
- Acquire the capacity to examine, diagnose and trafficking visual anomalies making particular emphasis on differential diagnosis
- Know the different protocols used in patients.
- Know and implement the new technologies in the field of clinical optometric.
- Know and apply the procedure of the different methods for clinical exploration and diagnosis complementary techniques.
- To detect and assess the main ophthalmologic disorders, with the purpose of send these patients to the ophthalmologist for treatment and study.

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Study load

Total learning time: 150h	Hours large group:	0h	0.00%
	Hours medium group:	32h	21.33%
	Hours small group:	28h	18.67%
	Guided activities:	6h	4.00%
	Self study:	84h	56.00%

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Content

<p>Clinical cases</p>	<p>Learning time: 96h 14m Theory classes: 28h 04m Laboratory classes: 24h Self study : 44h 10m</p>
<p>Description: Presentation of clinical cases in visual conditions / relevant frequent eye and optometric practice.</p> <p>Related activities: Mandatory Activity 1: (See description in planning activities) Related practice sessions: All. Mandatory Activity 2: (See description in planning activities) Related practice sessions: All.</p>	
<p>Reporting and management of referrals</p>	<p>Learning time: 21h Theory classes: 2h Laboratory classes: 3h Self study : 16h</p>
<p>Description: Procedure for the preparation of reports and management of patient referrals to other professionals</p> <p>Related activities: Activity: Seminar on reporting and writing Practical sessions involved: All.</p>	
<p>Screening</p>	<p>Learning time: 19h Theory classes: 2h Laboratory classes: 3h Self study : 14h</p>
<p>Description: Visual screening in different populations</p> <p>Related activities: Activity: Seminar screening</p>	

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Planning of activities

<p>DEMONSTRATIVE SESSION</p>	<p>Hours: 2h Laboratory classes: 2h</p>
<p>Description: Session 1 demonstration by the teacher, 2 hours, with real patients in small groups.</p> <p>Support materials: All materials necessary for the realization of this session is to Clinic</p> <p>Descriptions of the assignments due and their relation to the assessment: No evaluation associated with this activity directly</p>	
<p>CLINICAL SESSIONS WITH PATIENTS</p>	<p>Hours: 62h Laboratory classes: 22h Self study: 40h</p>
<p>Description: Five 4 hours clinical sessions, with patients, in small groups, as well as a number of Practicum sessions to be determined before the start of the semester.</p> <p>Support materials: All materials needed for these sessions is ready available in the Clinics.</p> <p>Descriptions of the assignments due and their relation to the assessment: Continuing assessment of all the clinical cases seen will be carried out. Clinical abilities related to the visual exam, reasoning in diagnosis and treatment, as well as dispensing of the glasses, when needed, will be assessed. This activity conforms 20% of this course (COMPULSORY ACTIVITY 3).</p>	
<p>SEMINAR ON PREPARATION OF REPORTS AND WRITTEN COMMUNICATION</p>	<p>Hours: 20h Laboratory classes: 2h Self study: 18h</p>
<p>Description: 1 Session (2 pm) on preparation of management reports and referrals based on the most common types of clinical cases and relevant.</p> <p>Support materials: All materials necessary for the realization of this session is in the clinic.</p> <p>Descriptions of the assignments due and their relation to the assessment: Students must prepare the report of a patient. This activity involves a 5% assessment of the subject. (COMPULSORY ACTIVITY 4)</p>	
<p>SEMINAR ON VISUAL SCREENING</p>	<p>Hours: 14h Laboratory classes: 2h Self study: 12h</p>
<p>Description: 1 Session-seminar on visual screening.</p>	

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Support materials:

All materials necessary for the realization of this session is in the clinic.

Descriptions of the assignments due and their relation to the assessment:

No evaluation associated with this activity directly

COMPULSORY ACTIVITY 1: 1 WRITTEN TEST ON DIFFERENTIAL DIAGNOSIS AND TREATMENT OF CONDITIONS SEEN IN CLINICAL CASES

Hours: 2h
Theory classes: 2h

Description:

Asked about the differential diagnosis and treatment of conditions seen in clinical cases

Support materials:

Description of the activity on the intranet

Descriptions of the assignments due and their relation to the assessment:

This activity involves 30% of the evaluation of the course

COMPULSORY ACTIVITY 2: WRITTEN TEST 2 ON DIFFERENTIAL DIAGNOSIS AND TREATMENT OF CONDITIONS SEEN IN CLINICAL CASES

Hours: 2h
Theory classes: 2h

Description:

Asked about the differential diagnosis and treatment of conditions seen in clinical cases

Support materials:

Description of the activity on the intranet

Descriptions of the assignments due and their relation to the assessment:

This activity involves 35% of the evaluation of the course.

MANDATORY ACTIVITY 3: SEARCH BOOKS

Hours: 6h
Theory classes: 6h

Description:

Continuing assessment of all the clinical cases seen will be carried out. Clinical abilities related to the visual exam, reasoning in diagnosis and treatment, as well as dispensing of the glasses, when needed, will be assessed. This activity conforms 20% of this course (COMPULSORY ACTIVITY 3).

Support materials:

Description of the activity on the intranet.

Descriptions of the assignments due and their relation to the assessment:

This activity involves 20% of the evaluation of the course

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COMPULSORY ACTIVITY 4: REPORTING	
<p>Description: Students must submit the full report of a patient who has seen during the clinical sessions, the date specified in planning.</p> <p>Support materials: Description of the activity on the intranet.</p> <p>Descriptions of the assignments due and their relation to the assessment: This activity involves a 5% assessment of the subject.</p>	
COMPULSORY ACTIVITY 5: PRESENTATION AND EXHIBITION CLINICAL CASES JUSTIFIED	<p>Hours: 10h Theory classes: 10h</p>
<p>Description: Students must prepare the report of a case seen in clinical practice, which will deliver via the intranet and will be available to other students for their learning.</p> <p>Support materials: Audiovisual center. Description of the activity on the intranet.</p> <p>Descriptions of the assignments due and their relation to the assessment: This activity involves 10% of the evaluation of the course</p>	
VOLUNTARY ACTIVITY 1: QUESTIONS RELATED CASES SUBMITTED FOR CLINICAL PROFESSOR	<p>Hours: 36h Self study: 36h</p>
<p>Description: Resolution of questions about concepts relevant to etiology, epidemiology, differential diagnosis, treatment, etc. .. delivered to students after the presentation of clinical cases by the teacher (2 hour theory session), and in order to complement and deepen the knowledge to be explained.</p> <p>Support materials: Description of the activity on the intranet</p>	
VOLUNTARY ACTIVITY 2: SUPPORT ACTIVITIES IN PATIENTS REAL VISUAL SCREENING.	<p>Hours: 3h Guided activities: 3h</p>
<p>Description: Resolution of questions about concepts relevant to etiology, epidemiology, differential diagnosis, treatment, etc. .. delivered to students after the presentation of clinical cases by the teacher (2 hour theory session), and in order to complement and deepen the knowledge to be explained</p> <p>Support materials: Description of the activity on the intranet.</p>	

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Practicum	Hours: 16h Laboratory classes: 16h
Description: Practicum sessions will be conducted in the areas of spectacle dispensing and ocular health special techniques exams. In the case of dispensing, this is the selection and adaptation of frames to the patients visited and the selection of lenses. This activity will be supervised by a professor of the Technology Attention. In the case special techniques for ocular health, this will consist of performing tests such as retinography, tonometry, keratometry, OCT, etc .. to patients, as directed from cabinet. Both activities will be accompanied and supervised by a 4th yr student (OCC)	

Qualification system

The evaluation will be based on continuous assessment and according to the percentages:

- Obligatory Activity 1: Written test on a differential diagnosis and treatment of conditions seen in clinical cases: 25%
- Obligatory Activity 2: Written test 2 on differential diagnosis and treatment of conditions seen in clinical cases: 25%
- Assessment of clinical skills and knowledge, as well as reporting during clinical sessions with real patients: 15%
- Search Bibliography: 10%
- Introduction and presentation of a reasoned case: 15%
- Preparation Report: 10%

Regulations for carrying out activities

Each activity will be specified in detail the model for make it and the corresponding overall assessment template. In case of partial or total copy of any evaluations of the course will apply the provisions of General Academic Regulations UPC: perform any act of fraudulently assessment involves, at least a score of 0 in that self evaluation, and possibly more severe disciplinary processes.

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Bibliography

Basic:

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- Rosenbloom, A.A.; Morgan, M.W. Vision and aging. 2nd ed. Boston: Butterworth-Heinemann, 1993. ISBN 0750693118.
- Yanoff, M.; Duker, J.S. Ophthalmology. 3rd ed. [S.I.]: Mosby, 2009. ISBN 9780323043328.
- Harvey, W.; Gilmartin, B. Paediatric optometry. Edinburgh: Butterworth-Heinemann, 2004. ISBN 0750687924.
- Scheiman, M.; Wick, B. Tratamiento clínico de la visión binocular: disfunciones heterofóricas, acomodativas y oculomotoras. Madrid: Ciagami, 1996. ISBN 8488985010.
- Spalton, D.J. [et al.]. Atlas of clinical ophthalmology. 2nd ed. London: Mosby, 1994. ISBN 0397446322.
- Ettinger, E.R.; Rouse, M.W. Clinical decision making in optometry. Boston: Butterworth-Heinemann, 1997. ISBN 0750695714.
- Douglas, R. Systemic diseases of old age. Optometry today, 2009.
- Bressler, R.; Katz, M.D. Geriatric pharmacology. New York: McGraw-Hill, 1993. ISBN 007007660X.

Complementary:

- Werner, D.L.; Press, L.J. Clinical pearls in refractive care. Boston: Butterworth-Heinemann, 2002. ISBN 0750699124.
- Selvin, G.; Townsend, J. "Clinical pearls in optometric management of the geriatric patient". Journal of the American Optometric Association [on line]. Vol. 65, núm. 1(1994), p. 49-57 [Consultation: 07/05/2013]. Available on: <http://cataleg.upc.edu/record=b1305418~S1*cat>.

Others resources: