



DEGREE CURRICULUM

ICT AND HEALTH APPLIED TO CHRONIC PATIENTS CARE

Coordination: MARTINEZ SOLDEVILA, JORDI

Academic year 2022-23

Subject's general information

Subject name	ICT AND HEALTH APPLIED TO CHRONIC PATIENTS CARE			
Code	100480			
Semester	1st Q(SEMESTER) CONTINUED EVALUATION			
Typology	Degree	Course	Character	Modality
	Bachelor's Degree in Nursing	4	OPTIONAL	Attendance-based
	Grau en Infermeria (R 2016 - lg)	4	OPTIONAL	Attendance-based
Course number of credits (ECTS)	6			
Type of activity, credits, and groups	Activity type	TEORIA		
	Number of credits	6		
	Number of groups	2		
Coordination	MARTINEZ SOLDEVILA, JORDI			
Department	NURSING AND PHYSIOTHERAPY			
Teaching load distribution between lectures and independent student work	Theoretical participatory class: 30 h 100% presence Seminars: 26 h 100% presence Autonomous work: 90 h 0% face-to-face Tutorials: 4 h 100% presence Total: 150h			
Important information on data processing	Consult this link for more information.			
Language	Catalan Spanish English			
Distribution of credits	6 ECTS:			
	- 50%: Theoretical class - 50%: Practice seminars			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
CENDRÓS MASSIQUI, MARIA	maria.cendros@udl.cat	1,8	
MARTINEZ SOLDEVILA, JORDI	jordi.martinezsoldevila@udl.cat	1,2	
PASTELLS PEIRO, ROLAND	roland.pastells@udl.cat	3	
SELVA PAREJA, LAIA	laia.selva@udl.cat	2	
SERRA ESCARP, OLGA	olga.serra@udl.cat	4	

Subject's extra information

- Continuous work is recommended throughout the semester.
- It is necessary to check the UdL's email every day and visit frequently the Virtual Campus spaces associated to the subject, these will be the communication systems of the subject among the different teachers and students.

Learning objectives

- To identify the benefits of the use of ICTs in the management of health situations.
- Evaluate intervention programmes based on the use of ICTs (prevention, promotion, healing, etc.) in different age groups.
- Design an intervention programme based on the use of ICTs.

Competences

Basic Skills:

CB2. Apply their knowledge to their work or vocation in a professional manner and possess the skills that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study.

CB4. To be able to transmit information, ideas, problems and solutions to both specialized and non-specialized audiences.

CB3. Ability to gather and interpret relevant data (usually within their area of study) to make judgments that include a reflection on relevant social, scientific or ethical issues.

Specific:

CE9. Apply health care information and communication technologies and systems. CE13. Utilizar estrategias y habilidades que permitan una comunicación efectiva con pacientes, familias y grupos sociales, así como la expresión de sus preocupaciones e intereses

CE12. Establish an empathetic and respectful relationship with the patient and family, according to the person's situation, health problem and stage of development.

CE13. Use strategies and skills that enable effective communication with patients, families and social groups, as well as the expression of their concerns and interests.

Transversal:

CT3. To acquire training in the use of new technologies and information and communication technologies.

Subject contents

ICT and Health applied to the care of chronic patients:

- **Information and communication technologies in health care: impact.**
 - History and evolution of
 - Basic concepts and terminologies of ICTs and innovation in health
 - Development of ICTs and their application in health.
 - Actors and entities linked to the technological sector and health communication
 - Digital identity and fingerprint
 - Security and privacy. Analysis and recording of data and information
 - Ethics and use of ICTs
 - Databases and Research in ICTs and Chronicity
 - Lines and strategies for the future of health care through ICTs

• Internet, web and mobile phone applications in health situations:

- Detection of existing resources.
- Critical analysis of detected resources. Systems of homologation of resources and Apps.
- Learning to use different resources related to ICTs and health.

• Evaluation of national and international health interventions and programs:

- Visibility, identification of key points and assessment of different projects that are carried out through the use of ICT

Methodology

The teaching methodologies of the subject will consist of:

- Master Class
- Group Work
- Individual works
- Problem resolution
- Colloquiums and conferences.

Development plan

The development plan will be posted in the resources section in the Calendar and schedule folder of the subject.

ECTS	Classroom-based activities (40%)		Non-contact activities: Student's autonomous work (60%)	Total student hours:
	Theoretical class (50%)	Class practices/mentoring (50%)		
6	30 hours	30 hours	90 hours	150 hours

The sessions can be recorded, for this reason the University of Lleida (UdL) informs that, for teaching purposes, will record images that identify students and other people who participate in academic activities. The responsible person for processing these images is the UdL (contact details of the representative: Secretària General. Plaça de Víctor Siurana, 1, 25003 Lleida, sg@udl.cat; contact details of the data protection officer: dpd@udl.cat). These images are only used for teaching, assessing subject's knowledge and for teaching improvement projects. The use of the images responds to the legal obligation of the UdL to teach and improve university teaching, in accordance with Organic Law 6/2001, of 21 December, on universities. The images, once recorded, are kept at least as long as they do not prescribe the corresponding actions and claims against the evaluation approved by the teacher. They are destroyed in the terms and conditions provided for in the regulations on the conservation and disposal of the administrative documents of the UdL, and the document evaluation tables approved by the Generalitat de Catalunya (<http://www.udl.cat/ca/serveis/arxiu/>). The UdL will never communicate this data to third parties, except in the cases strictly provided for in the Law. Interested people can access to their images; request rectification, deletion or portability; oppose the treatment and request its limitation, by writing to the address dpd@udl.cat </src/compose.php?send_to=dpd@udl.cat>. They can also submit a complaint addressed to the Catalan Data Protection Authority, through the electronic headquarters of the Authority (<https://seu.apd.cat>) or by non-electronic media.

ECTS	Classroom-based activities (40%)		Non-contact activities: Student's autonomous work (60%)	Total student hours:
	Theoretical class (50%)	Seminars (50%)		
6	30 hours	30 hours	90 hours	150 hours

Evaluation

1. Continuous evaluation

The criteria to be followed for the evaluation are as follows:

Evaluation systems

Type	Avaluation System	Percentage of note
1	Written test: open-ended questionnaire/test/clinical case	30%
3	Observation-based tools: control, participation and monitoring	30%
5	Work done by the student: Written and/or oral presentation	40%

- The evaluation system 1 will consist of a written test with virtual modality. The grade obtained will represent **30%** of the overall grade of the course. This evaluation test will be carried out in pairs or with the groups formed during the course of the elective. The exam will consist of **20** open questions and/or test.
- The evaluation and obtained result corresponding to the system 3 will turn the instruments-rubrics based on the observation, control, participation, follow-up and exposition activities of the student. This evaluative test will correspond **30%** of the final grade.
- The evaluation activity 5 will be carried out through the design and elaboration of a group/individual work of an intervention program based on the use of ICTs. The evaluation will be carried out by means of the pertinent rubric and the grade obtained will be equivalent to **40%** of the total of the subject.
- In order to make the weighted average of the different evaluative parts it is essential that the student obtains a grade, separately in each of them, **equal or higher than 5**.

Other information regarding the evaluation system:

- It is necessary to make an appointment one week in advance for individual tutorials.
- In order to obtain the honorary degree, the current regulations approved by the UdL will be followed.
- Regarding the plagiarism policy: assigning authorship of a work that is not one's own implies a failure. A final grade of 1 will appear on the transcript.

2. Single Evaluation:

Type	Avaluation System	Percentage of note
1	Written test: open-ended questionnaire/test/clinical case	40%
3	Observation-based tools: control, participation and monitoring	20%
5	Work done by the student: Written and/or oral presentation	40%

- Evaluation 1 will consist of an individual virtual test that will count for 40% of the overall grade of the course. The exam will consist of 20 open questions and/or test.
- The evaluation system 3 will consist of instruments-rubrics based on observation, control, participation, monitoring and exposition activities with a total weight of 20%. The student who selects this evaluation mode must submit a report containing a summary and a final reflection of the topics covered in the course and in each of the activities carried out (eg glossary, database search, debates, etc.).
- The evaluation activity 5 will consist of the realization of an individual work with the corresponding written and oral presentation. The weight of this activity will be equivalent to 40% of the total of the course.

Other information regarding the evaluation system:

- In order to be able to make the weighted average of the different evaluative parts it is essential that the student obtains a grade equal or higher than 5 in all the evaluative systems. **It will be essential to attend the class where the oral presentation of the final paper will take place.**
- Attendance to the theoretical classes is voluntary but it is recommended in order to understand and achieve adequately the learning results of the course.
- It is necessary to make an appointment one week in advance for individual tutorials.
- In order to obtain the honorary degree, the current regulations approved by the UdL will be followed.
- Regarding the plagiarism policy: assigning the authorship of a work that is not one's own implies a failure. A final grade of 1 will appear on the transcript.

Bibliography

Webgraphy

http://salutweb.gencat.cat/ca/el_departament/Pla_salut/pla-de-salut-2016-2020/

<https://ticsalutsocial.cat/>

<https://empresas.blogthinkbig.com/el-papel-clave-de-las-tic-en-las-enfermedades-cronicas/>

<https://empresas.blogthinkbig.com/ehealth/>

https://www.who.int/topics/chronic_diseases/es/

Articles

Aguaiza, D., Santos, M., y García, M. (2018). El rol de las TICs en la reducción de la brecha para el acceso a la salud. *Rehuso*, 3(2), 57-66. Recuperado de: <https://revistas.utm.edu.ec/index.php/Rehuso/article/view/1375/1252>

Campos de Aldana MS, Moya Plata D, Mendoza Matajira JD, Duran Niño EY. Las enfermedades crónicas no transmisibles y el uso de tecnologías de información y comunicación: revisión sistemática. *Rev. Cuid.* 2014; 5(1): 661-9.

Prado-Cucho S. y Bendezú-Quispe G. Uso de tecnologías de la información y comunicación (TIC) para mejorar la adherencia al tratamiento en pacientes con enfermedades crónicas. *Rev Med Hered.* 2013; 24:82-83.

García Cuyàs F, De de San Pedro M, Ledesma Castellor A. Las TICs y la Gestión de Pacientes Crónicos . *Sociedad Española de Informática y Salud* · Nº 105 · Junio 2014 Especial Las TIC para la atención a crónicos