In addition to the general offer of courses taught in English, some Centers also offer for incoming students English Friendly Courses (EFC): subjects taught in Spanish, in which the syllabus summary, lecturer tutoring, examinations and/or papers are available in English.

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<table>
<thead>
<tr>
<th>FACULTY OF MEDICINE AND NURSING – GIPUZKOA (252)</th>
<th>SEMESTER</th>
<th>CREDITS</th>
<th>SCHEDULE</th>
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<tr>
<td>26443 Sistemas de Información y Análisis de Datos</td>
<td>Sep. 2020- Jan. 2021</td>
<td>6</td>
<td>M</td>
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<tr>
<td>25212 Salud Pública</td>
<td>Sep. 2020- Jan. 2021</td>
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<td>M</td>
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<td>26464 Practicum II</td>
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<td>12</td>
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<td>Jan. 2021- May 2021</td>
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<td>26457 Elaboración de Proyectos de Enfermería</td>
<td>Jan. 2021- May 2021</td>
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<td>M</td>
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<tr>
<td>26460 Calidad y Seguridad en los Cuidados</td>
<td>Jan. 2021- May 2021</td>
<td>6</td>
<td>A</td>
</tr>
</tbody>
</table>
```

1 SCHEDULE: Morning (M)/ Afternoon (A): begins at 13:30.
By clicking the subject’s name, its Syllabus will appear.
The subject Information Systems and Data Analysis is a basic subject of the academic fields. The curricular Decree for bachelor of the Basque Autonomous Community is the starting point. Therefore, previously, students must have the following knowledge:
- Use of new technologies (operating systems, extension of files, email managers, management of files in the cloud, etc.)
- Use of word processors (formats and styles of the document, header and footer, indexes, etc)
- Use of spreadsheets (organization by cells, rows and columns, functions and basic operations, creation and modification of graphics, etc.).
- Basic mathematical concepts (basic operations, absolute values, relative, natural numbers, integers, rational, irrational, etc.).
- Creation of a technical text (Using reliable information sources and their corresponding bibliographic references).

As the expert Miguel Angel Zabalza indicates, evidence-based science is basic in the development of the academic curriculum, since it is transversal and must be systematized. The first steps in order to achieve it will be taken in this subject.

Throughout the semester students will work on the methodological basis of qualitative and quantitative research, information searches, the use of bibliographic references, the organization of information systems in the field of health sciences, the synthesis of information, data organization and its presentation, basic concepts of demography and biostatistics, care based on scientific evidence and critical reading.

COMPETENCIES/LEARNING RESULTS FOR THE SUBJECT

E.1.- To Develop a process of search, selection, recovery, management and use of the literature generated from a research question, demonstrating skill in the management of databases and basic information of the social health field.
E.2.- To analyze the data used for scientific production in the health sciences by interpreting its adequacy and meaning.
E.3.- To perform a critical reading of research articles in Health Sciences, analyzing the methodological quality and the adequacy and interpretation of the statistics in order to assess the quality of the scientific literature.

COURSE CONTENTS, THEORETICAL & APPLIED

Unit 1.- INTRODUCTION TO THE INVESTIGATION
1.1.- Types of research. Introduction to quantitative and qualitative research. Professional secrecy and Data Protection Law.
1.2.- Information systems in the field of health. CMBD. EDO.
1.3.- Search for information. Data sources in the field of health.
1.4.- Search and bibliographic management: scientific databases and bibliographic management programs.
1.5.- Use of bibliographical references. Vancouver Standards; APA; Harvard; ISO 690 and 690-2.

Unit 2.- DATA ANALYSIS
2.1.- Descriptive statistics: variables, scales, measures of central tendency and measures of dispersion. Organization of the data and graphic representation.
2.2.- Frequency indicators of the disease.
2.3.- Distributions. Standardized normal curve. Proportions.
2.4.- Inferential statistics. Sampling techniques Law on equality between women and men and sampling. Inference techniques.
2.5.- Statistical tests of contrast.

Unit 3.- SCIENTIFIC EVIDENCE
3.1.- Introduction to care based on scientific evidence.
3.2.- Critical reading of a clinical trial.
3.3.- Critical reading of a systematic review

TEACHING METHODS

Active methodologies and the flipped classroom model (inverted class) will be used. So the students will be responsible for their own learning process, developing all the competences through exercises and activities. In order to integrate the
practical contents in class and in the seminars, the students must read and prepare at home the theoretical and practical content. The students will analyze, understand, summarize and internalize the theoretical concepts.

- In addition to teaching hours, students will work by themselves on the theoretical concepts and the computer tools they will use for their application.

- The seminars will be held by small groups in the computer classroom. In these seminars, the students will work on bibliography search and management, data organization, statistical treatment of the data and critical reading. In all the seminars, the lecturers will guide the first part and in the second part, the students will have to carry out the exercises autonomously.

- Self-evaluation: the students will self-evaluate all their exercises, to be aware of their achievements in the learning process.

- The documentation related to the subject will be available to the students in the Moodle digital platform to follow the theoretical-practical part of the subject as the exercises carried out.

- Tutorials: to solve doubts, make recommendations to prepare the subject or help in the learning process.

**TYPES OF TEACHING**

<table>
<thead>
<tr>
<th>Types of teaching</th>
<th>M</th>
<th>S</th>
<th>GA</th>
<th>GL</th>
<th>GO</th>
<th>GCL</th>
<th>TA</th>
<th>TI</th>
<th>GCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours of face-to-face teaching</td>
<td>40</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
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</tr>
<tr>
<td>Hours of student work outside the classroom</td>
<td>50</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
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<td>20</td>
</tr>
</tbody>
</table>

**Legend:**
- M: Lecture-based
- S: Seminar
- GA: Applied classroom-based groups
- GL: Applied laboratory-based groups
- GO: Applied computer-based groups
- GCL: Applied clinical-based groups
- GCA: Applied fieldwork groups
- TA: Workshop
- TI: Industrial workshop

**Evaluation methods**

- Continuous evaluation
- End-of-course evaluation

**Evaluation tools and percentages of final mark**

- Multiple choice test  40%
- Exercises, cases or problem sets  60%

**ORDINARY EXAMINATION PERIOD: GUIDELINES AND OPTING OUT**

In accordance with the Protocol on academic ethics and prevention of dishonest or fraudulent practices in the evaluation tests and in the academic work of the UPV / EHU, the subject's lecturers on the first day of class, in the presentation of the student's guide, will specify as clearly as possible the materials, resources and technological resources, or otherwise, whose use is allowed in the development of the evaluation tests of the subject.

The evaluation will be continued (exercises of the seminars + work + exam test type). To pass this subject it is necessary to approve all the competences. The lecturers of the subject will use the following system in the evaluation:

E.1 To carry out a process of search, selection, recovery and bibliographic management, demonstrating skill in the management of basic databases of the field of health. Assessment in the final grade 30%.

E.2 To analyze the data used in the scientific production interpreting its adequacy and meaning, in order to assess the quality of the literature and its applicability in practice. Assessment in the final grade 40%.

E.3 To perform a critical reading of research articles in Health Sciences, in order to discern the quality of scientific production and apply it when appropriate in clinical practice. Assessment in the final grade 30%.

If a competence is not passed, the qualification of the competence will be suspended. If two or all three competences are not passed, the average mark of suspended competences will be set.

**FINAL EVALUATION SYSTEM:**

Students will have the right to be evaluated through the final evaluation system, regardless of whether or not they have participated in the continuous assessment system. Students interested in this kind of evaluation must submit in writing to the faculty responsible for the subject the waiver of continuous assessment, for which they will have a period of 9 weeks since the beginning of the semester, according to the calendar academic center.

Through this final test it will be verified that the student has overcome the knowledge and competences of the subject. This final test will consist of 3 exercises to evaluate the competencies E1, E2, E3.

E1: To complete a questionnaire on the use of bibliographic and data sources and carry out a bibliographic search in the
most important databases of the health system, managing this information with computer tools and using bibliographic references in a text + questionnaire. Value in the mark: 30%.

E2: To perform a search of quantitative data in health science data sources. Use data for the calculation of basic statistics and prepare a graph of them. With a given data series, differentiate the variables, identify the hypotheses, choose the appropriate statistical tests of contrast, obtain the results of them and interpret them + questionnaire. Value in the mark: 40%.

E3. To complete a questionnaire about care based on scientific evidence and perform a critical reading of an article + questionnaire. Value in the mark: 30%.

If a competence is not passed, the qualification of the competence will be suspended. If two or all three competences are not passed, the average mark of suspended competences will be set.

DISCLAIMER OF THE ORDINARY EVALUATION CALL:
In the case of continuous evaluation, in accordance with the article 12.2 of the regulations of the evaluation of students in the official degrees, if the weight of the final test is equal to or less than 40% of the grade of the subject, students may renounce the call. At least, the resignation must be communicated in a period that will be up to one month before the end date of the teaching period of the subject. This resignation must be submitted written to the responsible of the subject. In the case of the final evaluation, the failure to show up on the test on the official exam date will automatically cancel will resing the corresponding call.

EXTRAORDINARY EXAMINATION PERIOD: GUIDELINES AND OPTING OUT

In order to pass the subject, it is necessary to pass all the competences.

The evaluation of the subjects in the extraordinary calls will be made exclusively through the final evaluation system. The positive results obtained by the students during the course may be retained. So, the students that in the ordinary call have followed the continuous evaluation, in the extraordinary call must perform the tests corresponding to the competences that have not been passed.

Through this final test it will be verified that the students have passed the knowledge and competences of the subject. This final test will consist of 3 exercises to evaluate the competences E1, E2, E3. To overcome this subject it is necessary to pass all the competences.

E1: To complete a questionnaire on the use of bibliographic and data sources and carry out a bibliographic search in the most important databases of the health system, managing this information with computer tools and using bibliographic references in a text + questionnaire. Value in the mark: 30%.

E2: To perform a search of quantitative data in health science data sources. Use data for the calculation of basic statistics and make a graph with them. With a given data series, differentiate the variables, identify the hypotheses, choose the appropriate statistical tests of contrast, obtain the results of them and interpret them + questionnaire. Value in the mark: 40%.

E3. To complete a questionnaire about care based on scientific evidence and perform a critical reading of an article + questionnaire. Value in the mark: 30%.

If a competence is not passed, the qualification of that competence will be suspended. If two or all three competences are not passed, the average mark of the suspended competences will be set.

DISCLAIMER TO THE EXTRAORDINARY CALL:
Failure to submit to the test set on the official exam date will automatically waive the corresponding call.

MANDATORY MATERIALS
-Processor of texts (Word)
- Sheet calculation (Excel)
- Statistical program (SPSS)
- Bibliographic manager on-line (Refworks)
- Databases common in the field of health sciences
BIBLIOGRAPHY

Basic bibliography


-Fresquet J L. Internet para profesionales de la salud [Internet]. Madrid: Fundación Uriach; 2008 [acceso: 05/05/2015]. Disponible: http://issuu.com/fundacionuriach/docs/monograficos1


-Pastor-Barriuso R. Bioestadística [Internet]. Madrid: Escuela Nacional de Sanidad y Centro de Epidemiología, Instituto de Salud Carlos III; 2012 [acceso: 05/05/2014]. Disponible en: http://gesdoc.isciii.es/gesdoccontroller?action=download&id=03/06/2013-7dd67975c5


Detailed bibliography

- Pineda EB; Alvarado EL; Canales F. Metodología de la investigación. Manual para el desarrollo de personal de salud. 2ª ed. Washington DC: OPS. 1994
- Díaz VP. Metodología de la investigación científica y bioestadística para profesionales y estudiantes de Ciencias de la Salud. 2ª ed. Santiago de Chile: RIL. 2009
- Santos FX, Rodríguez CA, Rodríguez R. Metodología Básica de investigación en Enfermería. Madrid: Díaz de Santos; 2004
- Burns N; Grove SK. Investigación en Enfermería. Madrid: Elsevier; 2004
- Prieto L.; Herranz I. ¿Qué significa estadísticamente significativo?: La falacia del criterio del 5% en la investigación científica. Madrid: DíazSantos; 2005
- Martín A; Luna del Castillo JD. Bioestadística para las ciencias de la salud. Madrid: Norma; 2004
- Livi M. Introducción a la demografía. Barcelona: Ariel; 2000

Journals
- DECS: http://decs.bvs.br/E/homepage.htm
- RefWorks: https://www.refworks.com/
- Tripdatabase: http://www.tripdatabase.com/
- EMBASE: http://www.elsevier.com/online-tools/embase
- NHS Evidence: http://www.evidence.nhs.uk/
- Scopus: http://www.scopus.com/
- CINAHL (EBSCOHost): http://web.b.ebscohost.com/ehost/search/advanced?sid=206218cb-26bc-4738-882c-804eb206aa86%40sessionmgr111&vid=3&hid=125
- Up To Date: http://www.uptodate.com/home
- CSIC: http://bdoc.csic.es/8085/index.jsp
- EnFisPo: http://alfama.sim.ucm.es/isishtm/enfispo/
- DOCMED: http://www.uv.es/~docmed/documed/documed.html
- MEDES: https://medes.com/Public/Home.aspx
- MEDICAL IMAGING: http://www.medicalimaging.org/about-mita/medical-imaging-primer/
- IKERE: https://10.ikere.net/Osakidetza/HospitalDonostia/Ikere.php
- PREEVID: https://www.murciasalud.es/preevid.php
Observations

Addendum. Online Evaluation Ordinary Call

If for any reason the evaluation had to be on-line, it would be carried out following the criteria of the EHU edonondik / ebaluazioa document, as follows.

Ordinary Call: Guidelines and Waiver.

If there is continuous evaluation, all the exercises and the exam will be done online through e-gela. On the day of the exam, at any time the student can be asked to activate the camera to identify herself, as stated in the Statute of the university student. In addition, the Blackboard Collaborate program will be open to solve the doubts that arose during that test and look for a solution in case any problem arises. The development will be the same as that of the final test. In the case of continuous evaluation, in accordance with the provisions of art. 12.2 of the Regulatory Regulations for the Evaluation of students in official degree degrees, if the weight of the final test is equal to or less than 40% of the grade for the course, students may waive the call within a period that, at least, it will be up to a month before the end date of the teaching period of the corresponding subject. This resignation must be submitted in writing to the faculty responsible for the subject.

Regular Call: Final Test

All the tests of the extraordinary call will be carried out on the e-Gela platform and the E1, E2 and E3 competences will be evaluated. In all competitions, in the week prior to the exam date, an exercise (asynchronous evaluation) must be carried out and on the day and during the exam time, the test questionnaire corresponding to each competition (synchronous evaluation). At any time, the student can be asked to activate the camera to identify herself, as stated in the Statute of the university student. In addition, the Blackboard Collaborate program will be open to solve the doubts that arose during that test and look for a solution in case any problem arises.
E1 competence: value in the final grade 30%.

• In the week prior to the exam date: carry out this exercise in the e-classroom. Carry out the bibliographic search in the indicated health databases, manage the information sought through RefWorks and include those bibliographic references sought in a given text (15%).
• The day and time of the exam: on e-gela, complete a test questionnaire about bibliographic search and use of bibliography (15% - 30m).

E2 competence: value in the final grade 40%.

• In the week prior to the exam date: carry out the following exercise on e-gela: search for the indicated quantitative data in one of the health data sources, calculate with these data the corresponding basic statistics and create the indicated graph (15%).
• On the day and at the exam schedule: complete an e-gel test questionnaire on descriptive statistics, hypotheses and the use of statistical contrast tests: (% 25-45m.).

E3 competence: value in the final grade 30%.

• In the week prior to the exam date: critical reading of an article on e-gela (15%)
• The day and time of the exam: complete an e-gel test questionnaire on care based on scientific evidence (15% - 30m.).

If a competition is not passed, the note of the suspended competition will be placed. If two or three have not been exceeded, the average grade of the suspended competitions will be assigned.

Failure to take the test set on the official exam date will automatically waive the corresponding call.

EXTRAORDINARY CALL: GUIDELINES AND WAIVER.

To pass the course, you must pass all the competences.
The evaluation of the subjects in the extraordinary calls will be carried out exclusively through the final evaluation system.
The positive results obtained by the students throughout the course will be preserved. That is to say, the students who have carried out the continuous evaluation in the ordinary call must carry out in the extraordinary call only the tests of the competences not passed.
All the tests of the extraordinary call will be carried out on the e-Gela platform and the E1, E2 and E3 competences will be evaluated. In all competitions, in the week prior to the exam date, an exercise (asynchronous evaluation) must be carried out and on the day and during the exam time, the test questionnaire corresponding to each competition (synchronous evaluation). At any time, the student can be asked to activate the camera to identify herself, as stated in the Statute of the university student. In addition, the Blackboard Collaborate program will be open to solve the doubts that arose during that test and look for a solution in case any problem arises.

The development will be the same as that of the final test.
## TEACHING GUIDE 2020/21

<table>
<thead>
<tr>
<th>Centre</th>
<th>252 - Faculty of Medicine and Nursing. Gipuzkoa Department</th>
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<tr>
<td>Plan</td>
<td>GENFER20 - Bachelor's Degree in Nursing</td>
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<tr>
<td>Cycle</td>
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### SUBJECT

<table>
<thead>
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<th>SUBJECT</th>
<th>25212 - Public Health</th>
<th>ECTS Credits: 6</th>
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### DESCRIPTION & CONTEXTUALISATION OF THE SUBJECT

SUBJECT Public Health (6 ECTS) Degree in Nursing  
1st year  
Faculty of Medicine and Nursing. Gipuzkoa Section

### COMPETENCIES/LEARNING RESULTS FOR THE SUBJECT

- **E1**: Describe the concept of individual and collective health within the framework of Public and Community Health, to understand the Health Plans  
- **E2**: Identify environmental, social and biological health factors that influence the level of health of individuals.  
- **E3**: Explain the infectious process, recognizing the transmission mechanisms and the prevention steps.

**TRANSVERSE COMPETENCE**: oral communication. Communicate orally ideas and knowledge through a clear, organized and synthesized exposition using different resources and adapting to the characteristics of the situation and the audience.

### THEORETICAL/PRACTICAL CONTENT

- **UNIT 1**: INTRODUCTION TO PUBLIC HEALTH  
- **UNIT 2**: ENVIRONMENTAL DETERMINANTS OF HEALTH  
- **UNIT 3**: SOCIAL DETERMINANTS OF HEALTH  
- **UNIT 4**: BIOLOGICAL DETERMINANTS OF HEALTH  
  - Microbiology and immunity  
  - Bacteriology, virology and parasitology  
- **UNIT 5**: EPIDEMIOLOGY AND PREVENTION OF COMMUNICABLE DISEASES  
  - Demography and epidemiology  
  - Epidemiological chain  
  - Vaccines  
  - Healthcare-associated Infections (HAI)  
  - Disease registry  
  - Most prevalent communicable diseases according to transmission models: Airborne Transmission  
  - Water and food transmission  
  - Contact and sexual transmission  
  - Vector-borne transmission

### METHODS

- Oral presentation by the teacher  
- Analysis of articles and documentaries:  
  - Reading or watching  
  - Answer the questions  
  - Oral exposition  
- Individual or group works  
- Practical lab classes
<table>
<thead>
<tr>
<th>Type of teaching</th>
<th>M</th>
<th>S</th>
<th>GA</th>
<th>GL</th>
<th>GO</th>
<th>GCL</th>
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<th>TI</th>
<th>GCA</th>
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<td>Classroom hours</td>
<td>40</td>
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<td>8</td>
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<tr>
<td>Hours of study outside the classroom</td>
<td>55</td>
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Legend:
- M: Lecture
- S: Seminario
- GA: Pract.Class.Work
- GL: Pract.Lab work
- GO: Pract.computer wo
- GCL: Clinical Practice
- TA: Workshop
- TI: Ind. workshop
- GCA: Field workshop

ASSESSMENT SYSTEMS
- Continuous assessment system
- Final assessment system

TOOLS USED & GRADING PERCENTAGES
- Extended written exam 80%
- Team work (problem solving, project design) 10%
- Exposition of work, readings, etc. 10%

ORDINARY EVALUATION: GUIDANCE AND WAIVER
In accordance with the provisions of the Protocol on academic ethics and prevention of dishonest or fraudulent practices in the evaluation tests and in the academic work of the UPV / EHU, the subject's teachers on the first day of class, in the presentation of the student's guide will specify as clearly as possible, the materials, resources and, technological resources or others, whose use is allowed in the development of the evaluation tests of the subject.

ORDINARY EVALUATION: GUIDANCE AND WAIVER
The mixed assessment proposed by course faculty is as follows:
a) Continuous evaluation:
E1: 10% (written exam)
E2: 20% (15% written exam and 5% group works)
E3: 60% (55% written exam and 5% group works)
TRANSVERSE COMPETENCE: 10% (oral exposition)
Attendance to seminars is mandatory. An ability to pass the course all exam and works must be achieved independently.

b) Final test evaluation:
The weighting of the score will be:
E1: 10% (written exam)
E2: 20% (written exam)
E3: 60% (written exam)
TRANSVERSE COMPETENCE: 10% (oral exposition)
Students have the right to be assessed through a final evaluation, regardless of whether they have participated in continuous evaluation.
To this end, students must submit a written waiver to the course teaching staff. They must do so within the first 9 weeks of term-long courses and 18-weeks of year-long courses as set out in the academic calendar.
- Waving an evaluation will return a mark of not presented.
- In the case of continuous evaluation, in accordance with the provisions of art. 12.2 of the Regulatory Regulation of the Evaluation of the students in the official degree programs, if the weight of the final test is greater than 40% of the qualification of the subject, for the resignation of the call will be sufficient with not submitting to said final test for that the final grade of the subject is not presented or not presented.
- In the case of a final evaluation, failure to show up to the exam on the official exam date will automatically waive the evaluation in question.

EXTRAORDINARY EXAM CALL: GUIDELINES & DECLINING TO SIT
For extraordinary exams, students will be examined only for those competences they have failed in the ordinary evaluation, maintaining the above percentages.

COMPULSORY MATERIALS
BIBLIOGRAPHY

Basic bibliography


Deepening bibliography


Journals

ATENCIÓN PRIMARIA.
CRITICAL PUBLIC HEALTH.
ENFERMEDADES INFECCIOSAS Y MICROBIOLOGÍA CLÍNICA.
ENFERMERÍA ACTUALIDAD.
ENFERMERÍA CIENTÍFICA.
GACETA SANITARIA.
INDEX DE ENFERMERÍA.
METAS DE ENFERMERÍA.
PUBLIC HEALTH
REVISTA ESPAÑOLA DE SALUD PÚBLICA.
COMUNIDAD.

Web-sites

https://www.euskadi.eus/eusko-jaurlaritzta/osasun-saila/hasiera/ EUSKO JAURLARITZA, OSASUN SAILA
https://www.osakidetza.euskadi.eus/ab84-propor/eu/ OSAKIDETZA, PROFESIONALENTZAKO ATARIA
https://www.un.org/es NAZIO BATUAK
https://www.un.org/sustainabledevelopment/es/objetivos-de-desarrollo-sostenible/
https://www.who.int/es OME
https://www.mscbs.gob.es MINISTERIO DE SANIDAD, CONSUMO Y BIENESTAR SOCIAL
https://sespas.es SOCIEDAD ESPAÑOLA DE SALUD PÚBLICA Y ADMINISTRACIÓN SANITARIA
https://www.enfermeriacomunitaria.org ERIZAITZA KOMUNITARIOAREN ELKARTEA
https://www.ikuspeg.eus IMMIGRAZIOAREN EUSKAL BEHATOKIA
https://www.euskadi.eus/informazioa/populazioaren-osasuna-osagin-buletina-osagin/web01-a2osagin/eu/ OSAGIN BULETINA
https://obsaludasturias.com/obsa/ OBSERVATORIO DE SALUD DE ASTURIAS
http://www.cdc.gov/spanish/ GAIXOTASUNAK KONTROLATZEKO ZENTROA (AEB)
http://www.nih.gov/ OSASUN INSTITUTU NAZIONALA (AEB)
https://www.seepidemiologia.es/ EPIDEMIOLOGIAREN ESPAINIAR ELKARTEA
http://seimc.org/ GAIXOTASUN INFEKZIOSEN ETA MIKROBIOLOGIA KLINIKOAREN ESPAINIAR ELKARTEA
http://www.isciii.es/htdocs/index.jsp CARLOS III OSASUN-INSTITUTUA, MIKROBIOLOGIAKO ZENTRO NAZIONALA ETA EPIDEMIOLOGIako ZENTRO NAZIONALA
http://www.icn.ch/spanish.htm. CIE
External practical classes constitute a form of training carried out by students and supervised by the university. The goal is to enable the student to apply and build on the knowledge acquired throughout their academic training and to acquire competences which prepare them for a nursing career, enable them to find a job and foster their planning capabilities.

Access Requirements

Students wishing to take this subject must have passed the 2nd year subject *Practicum I*.

**COMPETENCES / LEARNING OUTCOMES FOR THE SUBJECT**

Pre-professional practicals in the form of a clinical rotation and including a final competence assessment, carried out in health centres, hospitals and other care centres. These practicals enable students to assimilate professional values, care communication competences and clinical reasoning, management and judgement. The nursing knowledge, abilities and attitudes based on principles and values, and which correspond to the competences set out under the general objectives and in the subjects which make up the Degree, are integrated into professional practice.

**IMPLEMENTATION**

Various people are involved in these external practical classes. Students are responsible for their own learning and take an active role in developing their competences and in the continuous assessment process.

In accordance with the currently regulatory framework on external student practicals, approved by the University of the Basque Country, the other people involved are as follows:

*Teacher (tutor from the centre)*

A nursing professional from the centre collaborating in the practicals who is in charge of organising training activities in agreement with the university.

*University tutor (teaching and research staff)*
The teacher in charge of supervising and supporting students who are carrying out external practical classes in a collaborating centre.

The learning methodology is based on problem-solving using the scientific method and on a reflection process which allows students to gradually acquire strategies and routemaps which help them become a considerate nursing professional.

The practicals are based on individual attention for the nursing student. With the support of the teacher and/or practicals tutor, the student sets their learning objectives in accordance with the established competences.

All credits for this subject are awarded for in-person learning in order to comply with Royal Decree 1837/2008, which states that students studying for a nursing degree must complete 2,300 hours of care practicals.

This practicum comprises a minimum of three tutorials:

1st tutorial. Coincides with the beginning of the practicals module. The learning agreement is drawn up.

2nd tutorial. Takes place halfway through the module. The student’s learning process and achievement of established competences are assessed and encouraged and their learning is redirected.

3rd tutorial. The learning process, learning outcomes and competences established at the start of the practicum are assessed at the end of the module.

**ASSESSMENT**

Assessment is a continuous process in which students justify and provide evidence for their achievements against the established competences. The university tutor will assess the practicals carried out on the basis of the teacher’s and students’ report, in accordance with the established assessment tools and criteria.

As per the regulations governing the assessment of students on official degree courses at the University of the Basque Country, each student will have the right to one annual examination session to pass this subject.

The Practicals Committee reserves the right to decide whether the period for this practicum may be extended within the bounds of the established academic calendar, under exceptional circumstances and duly justified. This exception does not affect practicals already carried out and not passed within that period.

*Extraordinary Examination Session: Instructions and Waiver*  
Not considered.

**USEFUL LINKS**

[https://egela.ehu.es/](https://egela.ehu.es/)
http://gestion.ehu.es/gaur
http://www.enfermeria-donostia.ehu.es/p226-home/eu/
**SUBJECT DESCRIPTION AND CONTEXT**

External practical classes constitute a form of training carried out by students and supervised by the university. The goal is to enable the student to apply and build on the knowledge acquired throughout their academic training and to acquire competences which prepare them for a nursing career, enable them to find a job and foster their planning capabilities.

**Access Requirements**

Students wishing to take this subject must have passed the 2nd year subject *Practicum I*.

**COMPETENCES / LEARNING OUTCOMES FOR THE SUBJECT**

Pre-professional practicals in the form of a clinical rotation and including a final competence assessment, carried out in health centres, hospitals and other care centres. These practicals enable students to assimilate professional values, care communication competences and clinical reasoning, management and judgement. The nursing knowledge, abilities and attitudes based on principles and values, and which correspond to the competences set out under the general objectives and in the subjects which make up the Degree, are integrated into professional practice.

**IMPLEMENTATION**

Various people are involved in these external practical classes. Students are responsible for their own learning and take an active role in developing their competences and in the continuous assessment process.

In accordance with the currently regulatory framework on external student practicals, approved by the University of the Basque Country, the other people involved are as follows:

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Access Requirements

Students wishing to take this subject must have passed the 3rd year subjects Practicum II and Practicum III.

COMPETENCES / LEARNING OUTCOMES FOR THE SUBJECT

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As per the regulations governing the assessment of students on official degree courses at the University of the Basque Country, each student will have the right to one annual examination session to pass this subject.

Students must pass both semesters to pass the practicum. The mark awarded will be calculated using the arithmetic mean of the marks for each semester.

The Practicals Committee reserves the right to decide whether the period for this practicum may be extended within the bounds of the established academic calendar, under exceptional circumstances and duly justified. This exception does not affect practicals already carried out and not passed within that period.

_Extraordinary Examination Session: Instructions and Waiver_
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**Access Requirements**

Students wishing to take this subject must have passed the 3rd year subjects *Practicum II* and *Practicum III*.

**COMPETENCES / LEARNING OUTCOMES FOR THE SUBJECT**

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*Extraordinary Examination Session: Instructions and Waiver*
Not considered.

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**COURSE GUIDE** 2020/21

<table>
<thead>
<tr>
<th>Faculty</th>
<th>252 - Faculty of Medicine and Nursing. Gipuzkoa Department</th>
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</thead>
<tbody>
<tr>
<td>Degree</td>
<td>GENFER20 - Bachelor’s Degree in Nursing</td>
</tr>
<tr>
<td>Cycle</td>
<td>Not Applicable</td>
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<tr>
<td>Year</td>
<td>Third year</td>
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</table>

**COURSE**

| Course Code | Course Name                        | Credits, ECTS | 6 |
|-------------|-----------------------------------|---------------|

**COURSE DESCRIPTION**

Brief description

This subject aims to facilitate the knowledge regarding the instruments, methods and material to develop research projects, develop evidence-based nursing, as well as contribute to the development of the body of knowledge in nursing.

**COMPETENCIES/LEARNING RESULTS FOR THE SUBJECT**

E1: To identify the stages of scientific research and design of a research project.

E2: To describe the relevance of research in nursing as a means of developing its body of knowledge.

E3: To analyse the advantages and disadvantages of the different designs and methods.

E4: To know the ethical aspects of research.

**COURSE CONTENTS, THEORETICAL & APPLIED**

Unit 1.- RESEARCH IN NURSING

0. Introduction to the subject
1. Final Degree Project
2. Introduction to research
3. Research in Nursing

Unit 2.- DEVELOPMENT OF A RESEARCH PROJECT

3. Identification and development of the topic
4. Search and assessment of the available literature
5. Schedule and working plan
6. Literature review
7. Quantitative research
8. Qualitative research
9. Sampling

Unit 3.- OTHER RELEVANT ASPECTS RELATED TO RESEARCH

10. Ethics
11. Funding

**TEACHING METHODS**

Methodological activities:

- Oral presentation.
- Analysis and comment on readings and videos.
- Group discussion.
- Design of a project.
TYPES OF TEACHING

<table>
<thead>
<tr>
<th>Types of teaching</th>
<th>M</th>
<th>S</th>
<th>GA</th>
<th>GL</th>
<th>GO</th>
<th>GCL</th>
<th>TA</th>
<th>TI</th>
<th>GCA</th>
</tr>
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<tbody>
<tr>
<td>Hours of face-to-face teaching</td>
<td>40</td>
<td>20</td>
<td></td>
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<tr>
<td>Hours of student work outside the classroom</td>
<td>45</td>
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Legend:
- M: Lecture-based
- S: Seminar
- GA: Applied classroom-based groups
- GL: Applied laboratory-based groups
- GO: Applied computer-based groups
- GCL: Applied clinical-based groups
- TA: Workshop
- TI: Industrial workshop
- GCA: Applied fieldwork groups

Evaluation methods
- Continuous evaluation
- End-of-course evaluation

Evaluation tools and percentages of final mark
- Written test, open questions: 45%
- Exercises, cases or problem sets: 15%
- Individual assignments: 40%

ORDINARY EXAMINATION PERIOD: GUIDELINES AND OPTING OUT

The mixed assessment proposed by course faculty is as follows:
- E1: 40%
- E2, E4: 45%
- E3: 15%

Students have the right to be assessed through a final evaluation, regardless of whether they have participated in continuous evaluation.
To this end, students must submit a written waiver to the course teaching staff. They must do so within the first 9 weeks of term-long courses as set out in the academic calendar.

EXTRAORDINARY EXAMINATION PERIOD: GUIDELINES AND OPTING OUT

For extraordinary exams, students will be examined only for those competences failed in the ordinary evaluation, maintaining the above percentages.

MANDATORY MATERIALS

BIBLIOGRAPHY

Basic bibliography
 Detailed bibliography


 Journals

Enfermería Clínica
Enfermería Intensiva
Index de enfermería
International Journal of Nursing Studies
Journal of Advanced Nursing
Journal of Clinical Nursing
Metas de enfermería
Revista de enfermería ROL
Scandinavian Journal of Caring Sciences

 Web sites of interest

http://youtube.com/watch?v=aDR3VjwXvEo&feature=related
http://youtube.com/watch?v=aoPs-bsMB7g&NR=1
https://www.youtube.com/watch?v=6wWeeCBBlk4
https://www.youtube.com/watch?v=v50FZmYqVIY
http://www.isciii.es/investen

OBSERVATIONS
This optional subject aims to provide training aimed at acquiring competencies that allow developing management tasks at different levels of responsibility of health organizations through the acquisition of knowledge, improvement of work systems and the optimization and quality assurance of the human, material and procedural resources that contribute to the professional development and leadership of nurses in the field of continuous improvement in care management and the quality and safety of patients.

COMPETENCIES/LEARNING RESULTS FOR THE SUBJECT

Competences to be developed:
CE 1.- Identify the principles of Quality management and Risk Management in the Health sector, for the provision of safe and quality care, contributing to the improvement of the management of own resources to take responsibility for their learning and work autonomous.
CE 2.- Use the various methodologies and improvement tools to facilitate decision-making in the caregiver role.
Instruments for the management of nursing care. Patient-centered electronic medical record. Tools to be used Osabide-Global and Osanaia.
CE 3.- Show the importance of informing, registering and documenting, using the appropriate technologies, to achieve continuous improvement through the evaluation and investigation of the care offered. Patient Safety. Health Risk Management. Risk Management Tools.

COURSE CONTENTS, THEORETICAL & APPLIED

Unit 1.-ELEMENTS AND CIRCUMSTANCES OF HEALTHCARE ASSISTANCE AND PROFESSIONAL EXERCISE OF NURSING IN HEALTH ORGANIZATIONS
Unit 1.1. The challenges of healthcare.
Unit 1.2. Patient Centered Care (ACP): The relationship of care and culture.
Unit 1.3. The regulation of professional behavior.

Unit 2.-MANAGEMENT OF QUALITY IN THE PROVISION OF CARE
Unit 2.1. Evolution of the concept of quality care in the nursing discipline.
Unit 2.2. The EFQM Model for the provision of quality care.
Unit 2.3. Leadership.
Unit 2.4. Organization people management.
Unit 2.5. Policy and strategy.
Unit 2.6. Resources.
Unit 2.7. Processes.
Unit 2.8. Results.

Unit 3.- RISK MANAGEMENT IN THE PROVISION OF CARE
Unit 3.1. The determinants of patient safety.
Unit 3.4. Prevention of adverse events and management of healthcare risk.
Unit 3.5. Patient Safety Culture. Good practices: safe nursing care and attention.
Unit 3.7. Research in Patient Safety.

TEACHING METHODS

Methodological activities:
- Oral presentation by the teacher, analysis, synthesis and assimilation of the concepts worked on in the classroom.
- Seminars with small groups.
- Group and / or individual works: viewing of videos, improvement plans, etc.
- Group preparation of cases and / or practical exercises.
### TYPES OF TEACHING

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### Evaluation methods
- Continuous evaluation
- End-of-course evaluation

### Evaluation tools and percentages of final mark
- Individual assignments 60%
- Teamwork assignments (problem solving, Project design) 10%
- Oral presentation of assigned tasks, Reading 10%
- Active participation with reflective attitude and commitment to learning process 20%

### ORDINARY EXAMINATION PERIOD: GUIDELINES AND OPTING OUT

Continuous evaluation system:
- CE 1: 50% [Individual Project (40%) and Active participation (10%)]
- CE 2: 30% [Individual Project (20%) and Active participation (20%)]
- CE 3: 20% [Group work (10%) and presentation of works (10%)]

It will be an essential requirement to obtain the final grade for the course that all the specific competences are passed with a grade equal to or greater than 5.

Final evaluation system: The students have the right to be evaluated through the final evaluation system, whereas they participated in the evaluation system proposed by the professor or no. To do so, the student must hand in a written resignation to participate in the proposed evaluation system to the professor responsible of the subject, for which they will have 9 weeks since the beginning of the semester, according to the academic calendar of the center. The final evaluation will have the following grading system:
- CE1: 50% (Written test)
- CE2: 30% (Written test)
- CE3: 20% (Written test)

**CALL RESIGNATION:**
The resignation to the official call will entail the grade of "not shown". In the case of the continuous evaluation system, the student will be able to resign at least until one month before the end of the subject. This resignation must be handed in writing to the professor that teaches the subject. In the case of the final evaluation system, the failure to show up to the test in the official date of the exam will entail the resignation to the call.

### EXTRAORDINARY EXAMINATION PERIOD: GUIDELINES AND OPTING OUT

The evaluation of the subject in the extraordinary call will be carried out exclusively through the final evaluation system. This will be carried out by means of a written test with the same characteristics as that described in the ordinary call. The note of those competitions that have been approved in the ordinary call will be taken into account.

**CALL RESIGNATION:**
Failure to take the test set on the official exam date will automatically resign the call.

### MANDATORY MATERIALS
At the beginning of the course, the teaching guide and the timetable of the subject will be made available to the students, specifying the most fundamental aspects.