## Course name

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| Social medicine and epidemiology |

## Department/chair

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| Departmant of dental anthropology/Chair of social medicine and epidemiology |

## Address of the department/chair

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| School of Dental Medicine, Gundulićeva 5, HR-10000 Zagreb |

## Mandatory or elective course

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| --- |
| Mandatory course |

## Year of study

|  |
| --- |
| 1st year |

## Semester

|  |
| --- |
| Summer semester |

## ECTS

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| --- |
| 3 ECTS points |

## Course leader

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| Prof. dr. sc. Hrvoje Brkić, brkic@sfzg.hr |

## Other teachers on the course

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| prof. dr. sc. Jelena Dumančić, dumancic@sfzg.hr  assc. prof. dr. sc. Ivana Savić Pavičin, savic@sfzg.hr  assc. prof. dr. sc. Marin Vodanović, vodanovic@sfzg.hr  Luka Banjšak, dr. dent. med., lbanjsak@sfzg.hr |

## Number of hours

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Winter semester** | **Summer semester** | **Total (winter+summer)** |
| **Lectures** | - | 10 | 10 |
| **Seminars** | - | 20 | 20 |
| **Practicals** | - | - | - |
| **Total** | - | 30 | 30 |

1 hour = 45 minutes

## Description and aim of the course

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| The purpose of the course is to enable students to participate in an unique health care process. For this, in addition to extensive professional knowledge and skills from everyday dental practice, they need certain epidemiological knowledge and abilities, skills and attitudes that allow them to understand the impact of physical and social factors on human health; to be able to master the knowledge and skills to assess the health status of the population, identify priority health problems and plan, develop and implement intervention programs. Particular emphasis is placed on preventive aspects of protection and social components of health problems, in order to enable good communication and cooperation with the population. |

## Course enrolment requirements

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| There are no enrolment requirements for 2nd year students. |

## Learning outcomes at the level of the study program to which the subject contributes:

Knowledge, skills and competencies related to professionalism, ethics and law

Knowledge, skills and competencies related to communication and social skills

Knowledge, skills and competencies related to basic knowledge and the ability to gather information from the literature

Knowledge, skills and competencies related to the collection of clinical information

Knowledge, skills and competencies related to diagnosis and therapy planning

Knowledge, skills and competencies related to the therapy, establishment and maintenance of oral health

Knowledge, skills and competencies related to preventive measures and health promotion

## Course learning outcomes

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| **Knowledge** |
| 1. Define basic concepts related to social medicine, public health and organization of health services and basic epidemiological terms |
| 1. Explain the importance of applying biological and ecological principles in dentistry |
| 1. Collect epidemiological data for the assessment of the health status of the population in the Republic of Croatia - indicators: demographic, socio-economic, medical, health activity. Data are available in printed and electronic form - Central Bureau of Statistics of the Republic of Croatia, Croatian Institute of Public Health, County Institutes of Public Health |
| 1. Identify priority health problems, their causes and possible consequences |
| 1. Among the identified health problems, choose priorities according to, for example, age groups. Identify risk groups of patients in the dental practice and suggest measures to improve their oral health |
| **Skills** |
| 1. Examine examples of similar selected health priorities in other EU Member States. The student will find data in: state statistical institutes, public health services, WHO. The data is available in electronic form. Compare solutions of similar health priorities of EU Member countries |
| 1. Propose an intervention program focusing on preventive and social components of health care |
| 1. Analyze examples from practice in order to determine the positive and negative elements of communication with the patient in the dental practice |
| **Competencies** |
| 1. Propose models of communication between health professionals (in the team) and health professionals towards individuals and groups for the purpose of successful interaction and information in changing social situations. |

## Course content

Lectures

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| --- | --- | --- |
|  | **Topics – summer semester** | **Hours** |
|  | Social medicine and public health | 1 |
|  | Basics of health service organization and health economics | 1 |
|  | Population health assessment – health indicators and sources of information | 1 |
|  | Health education and health promotion | 1 |
|  | Epidemiology and prevention of caries | 1 |
|  | Ecological dentistry | 1 |
|  | Epidemiology and prevention of periodontal diseases and malocclusion | 1 |
|  | General epidemiology; Epidemiology of infectious and chronic non-communicable diseases | 1 |
|  | Biological dentistry | 1 |
|  | Protection of vulnerable groups and problems of the elderly population | 1 |

1 hour = 45 minutes

Seminars

|  |  |  |
| --- | --- | --- |
|  | **Topics – summer semester** | **Hours** |
|  | Population groups and health at different stages of the life cycle | 2 |
|  | World Health Organization (WHO) and global health | 2 |
|  | Preventive programs in the Republic of Croatia - general medical and dental medicine | 2 |
|  | Infectious diseases and riskin dental medicin | 2 |
|  | Health intervention - prevalence of high blood pressure, determination of BMI index , | 2 |
|  | Epidemiological indicators of oral diseases and conditions: international comparison (KEP, trauma, clefts, periodontal disease, malocclusions, toothlessness) | 2 |
|  | Medicine of the future: health problems and treatment methods (Individualized medicine, tissue engineering and genetic manipulation) | 2 |
|  | Protection of vulnerable groups and problems of the elderly population | 2 |
|  | Protection of vulnerable groups and problems of the elderly population: reports | 2 |
|  | Evidence based medicine and dental medicine: Cohrane | 2 |

1 hour = 45 minutes

## Obligations that students have on the course

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| The student is required to attend lectures and actively participate in seminars. |

## Description of the method of evaluation of students work on the course

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| Student attendance at lectures and seminars is regularly monitored. In addition, students are required to present the assigned topics of the seminar, several times during the semester. Fieldwork is mandatory, followed by the preparation and presentation of an appropriate report. After completing the course, students take an exam. |

## Exam

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| The exam is taken online. In calculating the final grade, all grades of previously completed seminars are taken into account. |

## Exam dates

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | November | December | January | February | April | May | June | July | August | September |
| Dates |  |  |  |  |  |  | 12, 26 | 10 |  | 18 |

## Literature (mandatory)

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| 1. Jakšić Ž. i sur. Socijalna medicina. Zagreb: Medicinska naklada Zagreb, 2000.  2. Babuš V. i sur. Epidemiologija. Zagreb: Medicinska naklada, 1997.  3. Valić F. Zdravstvena ekologija. Zagreb: Medicinski fakultet Sveučilišta u Zagrebu, 2001. |

## Literature (supplementary)

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| 1. Šogorić S (ur.). Organizacija zdravstvene zaštite i zdravstvena ekonomika. Zagreb: Medicinska naklada, 2016.  2. Ostojić R, Bilas V, Franc S. Stanje i perspektive razvoja europskih zdravstvenih sustava. Zagreb: Notitia, 2015.  3. Ropac D, Puntarić D. Epidemiologija zaraznih bolesti. Zagreb: Medicinska naklada, 2010.  4. Vorko-Jović A, Strnad M, Rudan I (ur.). Epidemiologija kroničnih nezaraznih bolesti. Zagreb: Medicinska naklada, 2010. |