## Course name

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| Forensic dental medicine |

## Department/chair

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| Department of dental anthropology / Chair of forensic dentistry |

## 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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| --- |
| Elective course |

## Year of study

|  |
| --- |
| 5th year |

## Semester

|  |
| --- |
| Summer semester |

## ECTS

|  |
| --- |
| 2 ECTS point |

## 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** | 15 | - | 15 |
| **Seminars** | - | - | - |
| **Practicals** | 15 | - | 15 |
| **Total** | 30 | - | 30 |

1 hour = 45 minutes

## Description and aim of the course

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| The main goals of forensic dentistry are to educate students about the importance of medical and dental documentation for the purpose of establishing identity; to point out mistakes in professional work and how to prevent them. Mistakes and negligence in work can damage the health of patients or lead to a lethal outcome and need to be prevented in time. |

## Course enrolment requirements

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| There are no enrolment requirements for 5th year students. Students enrol the course by choice. |

## 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. Describe techniques and components of dental identification of the human body or parts of the human body |
| 1. Describe methods of DNA analysis from dental tissues |
| 1. Describe injuries of the dental system and the procedure of witnessing in dentistry |
| 1. Discuss the rights and duties of a modern dentist, and the categories of negligence and error |
| 1. Discuss injuries of the stomatognathic system and their classification |
| **Skills** |
| 1. Make a comparison of ante-mortem and post-mortem dental data |
| 1. Collect ante-mortem and post-mortem dental data |
| 1. Draw a conclusion about the possibility of dental identification |
| **Competencies** |
| 1. Determine dental age by analysis of orthopantomograms |
| 1. Analyse traces of human bites for the purpose of identifying the perpetrator of the bite |

## Course content

Lectures

|  |  |  |
| --- | --- | --- |
|  | **Topics – summer semester** | **Hours** |
|  | Introductory remarks, history of forensic dentistry in Croatia and in the world | 1 |
|  | Dental identification - procedure, preparation of instruments and analysis | 1 |
|  | Comparison of pre-fatal and post-fatal dental features | 1 |
|  | Dental documentation | 1 |
|  | Determining age by dental techniques | 1 |
|  | Dental profiling | 1 |
|  | Analysis of bites on the victim's body and identification of the perpetrator | 1 |
|  | Hereditary and acquired changes in teeth important for the identification of the human body | 1 |
|  | Analysis of DNA from dental tissues | 1 |
|  | Negligence of the dentist | 1 |
|  | Expertise in dentistry | 1 |
|  | Classification of injuries of the stomatognathic system | 1 |
|  | The most common mistakes in the work of dentists | 1 |
|  | Application of criminal law to dentists | 1 |
|  | Repetition | 1 |

1 hour = 45 minutes

Practicals

|  |  |  |
| --- | --- | --- |
|  | **Topics – summer semester** | **Hours** |
|  | Reading dental status | 2 |
|  | Ante-mortem dental features | 2 |
|  | Post-mortem dental features | 2 |
|  | Estimation of dental age | 2 |
|  | Human bite analysis | 2 |
|  | Seminar | 2 |
|  | Visit to the Department of Forensic Medicine and Criminology | 2 |

1 hour = 45 minutes

## Obligations that students have on the course

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| Students are required to come to class and fulfil entrusted tasks. |

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

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| The evaluation of students work is done via final oral exam. |

## Exam

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| The exam is oral. |

## Exam dates

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | November | December | January | February | April | May | June | July | August | September |
| Dates |  |  | 30. | 13. |  |  | 12. | 3. |  |  |

## Literature (mandatory)

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| • Brkić H. I suradnici. Forenzična stomatologija, 2000. Zagreb: Školska knjiga,2000  • Jerolimov V, Brkić H I sur. Vještačenje u stomatologiji. Zagreb: Stomatološki fakultet, 2005. |

## Literature (supplementary)

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| --- |
| • Brkić H, Leasing R, Alves da Silva R, Pinchi V, Thevissen P. Forensic Odonto-Stomatology by IOFOS. Jastrebarsko: Naklada Slap, 2021 |