## Course name

|  |
| --- |
| Forensic dental medicine |

## Department/chair

|  |
| --- |
| Department of dental anthropology / Chair of forensic dentistry |

## Address of the department/chair

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

## Mandatory or elective course

|  |
| --- |
| Elective course |

## Year of study

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

## Semester

|  |
| --- |
| Summer semester |

## ECTS

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

## Course leader

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

## Other teachers on the course

|  |
| --- |
| prof. dr. sc. Jelena Dumančić, dumancic@sfzg.hrassc. prof. dr. sc. Ivana Savić Pavičin, savic@sfzg.hrassc. prof. dr. sc. Marin Vodanović, vodanovic@sfzg.hrLuka 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

|  |
| --- |
| 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

|  |
| --- |
| 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:

[x]  Knowledge, skills and competencies related to professionalism, ethics and law

[ ]  Knowledge, skills and competencies related to communication and social skills

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

[x]  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

|  |
| --- |
| **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

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

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

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

## Exam

|  |
| --- |
| The exam is oral. |

## Exam dates

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

## Literature (mandatory)

|  |
| --- |
| • 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)

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