



University of Zagreb
SCHOOL OF DENTAL MEDICINE

Dental Medicine

POSTGRADUATE
DOCTORAL
study

STUDY PROGRAM

1948

Being that the modern society is increasingly based on knowledge, high education and scientific research has become an imperative for the individual, the community and even the entire nation's development. Dynamic changes and fast development of relevant sciences have considerably modified the lifestyles. Due to this, we continuously have to prove and promote the achievements of our profession and undergo permanent evaluation of our personal work.

Organized research activity at the School of Dental Medicine has been developing for decades, which is particularly enhanced by our teachers' cooperation with a number of prominent international scientists and institutions. Thus, not only declaratively, we confirm our involvement in global and particularly European integrations. Over the years, our faculty has achieved great success by participating in numerous scientific researches and projects, which is evidenced by many prominent scientific papers and awards.

During the academic year 2007/2008, after the international assessment and in accordance with the criteria set by the National Council for Higher Education as well as the instructions given by the Rector's Assembly of the Ministry of Science, Education and Sports the Zagreb University School of Dental Medicine has been given the licence to conduct a post-graduate Doctoral study in "Dental Medicine".

Based on the principles of excellence, this Doctoral study comprises the best that the Zagreb University School of Dental Medicine can offer scientifically in the current economic circumstances. The contents of the studies are mainly conceptually linked to scientific projects and are delivered with constant mentor's support by prominent experts. .

The objective of the postgraduate doctoral study in "Dental Medicine" is primarily to introduce young lecturers into scientific research. However, all potential users who consider this form of education a challenge in their medical professional career are welcome. Upon study completion, the graduates are rewarded a Ph.D. title in the field of Dental Medicine, Biomedicine and Healthcare. I am confident that this study will be a challenge to all young colleagues in search of new knowledge and insights.

Dean

Prof. Hrvoje Brkić, PhD

PROGRAM OF THE POSTGRADUATE DOCTORAL STUDY “DENTAL MEDICINE”

| I st YEAR | II nd YEAR | III rd YEAR |
|---|---|---|
| Methodological and branch subjects (I st and II nd credit group) 36 points | Mentor consultations Research seminar Presentation skills display | Mentor consultations Research seminar Presentation skills display |
| Research activities (III rd credit group) 144 points | | |

MILESTONES OF THE PhD STUDENTS' PROGRESS (MS)

MS1 – The Ethics Committee approval for the research; the end of the 2nd semester

MS2 – PhD thesis application; the end of the 2nd semester

MS3 – PhD thesis acceptance; the end of the 4th semester

MS4 – Annual PhD student's and mentor's progress report (Dr.sc. 04 and Dr.sc. 05); the end of the 2nd, 4th and 6th semester

MS5 – 144 scientific activity points achieved; when submitting the dissertation for the assessment

Methodological subjects

| Code | Lecturer | Subject | Type | Total | Lectures | Seminars | Practicals | ECTS |
|------|---------------------------|---|------|-------|----------|----------|------------|------|
| 1 | Alajbeg, Ivan | Analytical, in vitro and in vivo laboratory methods for bioactive and biocompatible substances research | M | 20 | 6 | 10 | 4 | 4,0 |
| 2 | Anić, Ivica | Writing a scientific paper | M | 20 | 5 | 10 | 5 | 4,0 |
| 3 | Borić, Vesna | Information sources in Dental Medicine | M | 15 | 5 | 0 | 10 | 3,0 |
| 4 | Brkić, Hrvoje | Dental Profileing | M | 20 | 3 | 12 | 5 | 4,0 |
| 5 | Gajović, Srećko | Biomorphological Methods in Dentistry Research | M | 25 | 13 | 12 | 0 | 5,0 |
| 6 | Grgurević, Lovorka | Molecular Biology of Mineralized Tissues | M | 25 | 10 | 5 | 10 | 5,0 |
| 7 | Kujundžić Tiljak, Mirjana | Biostatistics | M | 30 | 5 | 15 | 10 | 6,0 |
| 8 | Matulić, Tonči | Ethics in Biomedical Research | M | 15 | 9 | 6 | 0 | 3,0 |
| 9 | Šlaj, Mladen | Morphometric 3D analysis of the craniofacial system | M | 20 | 4 | 10 | 6 | 4,0 |
| 10 | Šlaj, Mladen | Oral epidemiology | M | 30 | 0 | 15 | 15 | 6,0 |
| 11 | Ulovec, Zlatko | Epidemiological methods in research | M | 20 | 5 | 5 | 10 | 4,0 |
| | | | | 240 | 65 | 100 | 75 | 48 |

Branch subjects

| Code | Lecturer | Subject | Type | Total | Lectures | Seminars | Practicals | ECTS |
|------|------------------------|--|------|-------|----------|----------|------------|------|
| 12 | Alajbeg, Iva | Chronic orofacial pain diagnostics and somatic and sensory testing methods in the orofacial region | B | 25 | 7 | 10 | 8 | 5,0 |
| 13 | Anić Milošević, Sandra | Photogrammetry and Aesthetics in Orthodontics | B | 15 | 5 | 5 | 5 | 3,0 |

| | | | | | | | | |
|----|-----------------------------|---|---|----|---|----|----|-----|
| 14 | Anić, Ivica | Basic and advanced research techniques in Endodontics and laser application in Dentistry | B | 20 | 8 | 6 | 6 | 4,0 |
| 15 | Aurer, Andrej | Periodontium, periimplant tissues and occlusal forces | B | 10 | 5 | 5 | 0 | 2,0 |
| 16 | Badel, Tomislav | Temporomandibular pain and osteoarthritis | B | 20 | 6 | 7 | 7 | 4,0 |
| 17 | Baraba, Anja | Investigation of laser influence on biomechanical properties of dental materials and hard dental tissues | B | 15 | 4 | 5 | 6 | 3,0 |
| 18 | Bašić Kes, Vanja | Scientific approach to genetics, epidemiology, patophysiology, diagnostics and pain treatment in the head and neck region | B | 30 | 8 | 12 | 10 | 6,0 |
| 19 | Biočina-Lukenda, Dolores | Oral and Medical Aspects of Systemic Autoimmune Diseases | B | 20 | 6 | 7 | 7 | 4,0 |
| 20 | Biočina-Lukenda, Dolores | A Modern Approach to the Issues Regarding Oral Premalignant Lesions | B | 15 | 5 | 5 | 5 | 3,0 |
| 21 | Bošnjak, Andrija | Dental Implant Design | B | 10 | 0 | 8 | 2 | 2,0 |
| 22 | Božić, Darko | Regenerative periodontal therapy and tissue engineering | B | 10 | 3 | 3 | 4 | 2,0 |
| 23 | Budimir, Ana | Microbiological methods in dental medicine | B | 30 | 6 | 14 | 10 | 6,0 |
| 24 | Carek, Andreja | Metals and alloys as biomaterials | B | 15 | 0 | 7 | 8 | 3,0 |
| 25 | Čelebić, Asja | Stomatognathic bone tissue analysis; the impact of functional wear; aging, implant therapy and/or prosthetics | B | 20 | 6 | 7 | 7 | 4,0 |
| 26 | Čelebić, Asja | Prosthodontic patient and quality of life evaluation after prosthodontics: questionnaires, factor analysis and psychometric qualities | B | 20 | 6 | 7 | 7 | 4,0 |
| 27 | Čizmić, Alena | Experimental photopolymerization | B | 15 | 5 | 2 | 8 | 3,0 |
| 28 | Čuković-Bagić, Ivana | Epidemiology of dental erosion among adolescents | B | 15 | 5 | 8 | 2 | 3,0 |
| 29 | Čatić, Amir | Biomechanic principles in implant-prosthodontic therapy | B | 20 | 5 | 12 | 3 | 4,0 |
| 30 | Čatović, Adnan | Biomechanics in Fixed Prosthodontics | B | 10 | 4 | 4 | 2 | 2,0 |
| 31 | Čelić, Robert | Clinical and radiological examination of the success of implant-prosthetic treatment in completely edentulous patients | B | 20 | 3 | 7 | 10 | 4,0 |
| 32 | Dukić, Walter | Evaluation of clinical and preventive methods of caries therapy | B | 20 | 4 | 8 | 8 | 4,0 |
| 33 | Dumančić, Jelena | Morphometry in Dental Anthropology | B | 15 | 2 | 7 | 6 | 3,0 |
| 34 | Galić, Nada | Examination of the toxicity of dental materials and their influence on human organism and environment | B | 15 | 5 | 5 | 5 | 3,0 |
| 35 | Glavina, Domagoj | Evaluation of dental materials in Pediatric Dentistry | B | 25 | 6 | 10 | 9 | 5,0 |
| 36 | Janković, Bernard | Successful evaluation of preventive and minimally invasive procedures for the treatment of dental hard tissue | B | 17 | 9 | 3 | 5 | 3,0 |
| 37 | Jurić, Hrvoje | Clinical and experimental endodontics in primary and permanent teeth" | B | 15 | 2 | 5 | 8 | 3,0 |
| 38 | Karlović, Dalibor | Scientific Research in Psychostomatology | B | 20 | 6 | 7 | 7 | 4,0 |
| 39 | Karlović, Zoran | Endodontic surgery: contemporary approach, methods and materials | B | 20 | 5 | 9 | 6 | 4,0 |
| 40 | Katanec, Davor | Contemporary methods in Dental Implantology | B | 15 | 6 | 5 | 4 | 3,0 |
| 41 | Katunarić, Marina | Ion release from tooth hard tissues due to the exogenous and endogenous factors | B | 15 | 2 | 2 | 11 | 3,0 |
| 42 | Knezović Zlatarić, Dubravka | Importance of dental color assessment in various dental treatments | B | 20 | 3 | 7 | 10 | 4,0 |
| 43 | Kraljević Šimunković, Sonja | Clinical and instrumental analysis of the stomatognathic system | B | 15 | 5 | 0 | 10 | 3,0 |

| | | | | | | | | |
|----|-----------------------------|---|----------|------|-----|-----|-----|-----|
| 44 | Krmek, Silvana | Immunohistochemical and molecular analysis of pulp and periapical tissue inflammation | B | 15 | 6 | 3 | 6 | 3,0 |
| 45 | Lapter Varga, Marina | Conventional and Digital Cephalometry in Orthodontics | B | 20 | 7 | 4 | 9 | 4,0 |
| 46 | Lovrić, Jasna | Oxidative stress | B | 10 | 5 | 4 | 1 | 2,0 |
| 47 | Ljubičić, Neven | Correlations and connections between the diseases of mouth and teeth and the cardiovascular and gastrointestinal diseases | B | 15 | 2 | 8 | 5 | 3,0 |
| 48 | Majstorović, Martina | Evaluation of the application of inhalation sedation in dentistry | B | 15 | 0 | 8 | 7 | 3,0 |
| 49 | Mehulić, Ketij | Ceramics in Prosthodontics | B | 20 | 6 | 10 | 4 | 4,0 |
| 50 | Meštrović, Senka | Finite element method in biomechanical analysis of the craniofacial system | B | 20 | 6 | 10 | 4 | 4,0 |
| 51 | Miletić, Ivana | Investigation of biological and technical qualities of root canal filling materials | B | 15 | 6 | 6 | 3 | 3,0 |
| 52 | Mravak Stipetić, Marinka | Molecular diagnostics of oral diseases | B | 15 | 5 | 2 | 8 | 3,0 |
| 53 | Negovetić Vranić, Dubravka | Experimental methods of determining the effectiveness of the resources for the maintenance of oral hygiene | B | 15 | 0 | 8 | 7 | 3,0 |
| 54 | Pavelić, Božidar | Histopathological analysis of periapical diseases | B | 10 | 2 | 4 | 4 | 2,0 |
| 55 | Pečina-Šlaus, Nives | Genome of tumor cells | B | 15 | 5 | 5 | 5 | 3,0 |
| 56 | Perić, Berislav | Sinus lifting-evaluation of different operating techniques | B | 20 | 4 | 10 | 6 | 4,0 |
| 57 | Peroš, Kristina | Determination of fluoride in human enamel after treatment with topical fluoride agents | B | 15 | 3 | 6 | 6 | 3,0 |
| 58 | Plančak, Darije | Epidemiological and systemic aspects in the etiology of periodontal diseases | B | 15 | 5 | 5 | 5 | 3,0 |
| 59 | Prskalo, Katica | Experimental evaluation of glass ionomer cements | B | 15 | 4 | 5 | 6 | 3,0 |
| 60 | Simeon, Paris | Management in dental medicine | B | 10 | 6 | 0 | 4 | 2,0 |
| 61 | Stipetić-Ovčariček, Jasmina | Localized alveolar crest defects, influence on esthetics and the anchors of fixed prosthodontics | B | 20 | 4 | 4 | 12 | 4,0 |
| 62 | Šamija, Ivan | Laboratory methods in imunology: polymerase chain reaction and flow cytometry | B | 20 | 0 | 7 | 13 | 4,0 |
| 63 | Šegović, Sanja | Quality evaluation of postendodontic systems | B | 15 | 3 | 6 | 6 | 3,0 |
| 64 | Šerman, Ljiljana | Epigenetics | | 15 | 2 | 7 | 6 | 3,0 |
| 65 | Šitum, Mirna | New findings on melanoma with special emphasis on head and neck melanomas | B | 20 | 9 | 4 | 7 | 4,0 |
| 66 | Šljaj, Martina | Digital gnathometrics and CAD CAM assisted treatment in orthodontics | B | 15 | 2 | 7 | 6 | 3,0 |
| 67 | Špalj, Stjepan | Assessment of orthodontic treatment need | B | 15 | 5 | 6 | 4 | 3,0 |
| 68 | Tarle, Zrinka | Experimental methods for determining the quality of composite materials | B | 20 | 6 | 7 | 7 | 4,0 |
| 69 | Tarle, Zrinka | Experimental methods for determining the effectiveness of adhesive systems | B | 20 | 6 | 7 | 7 | 4,0 |
| 70 | Trkanjec, Zlatko | Neurological causes of chewing and swallowing (mastication and deglutition) disorders | B | 15 | 6 | 7 | 2 | 3,0 |
| 71 | Uglešić, Vedran | Orthodontic and surgical treatment of skeletal face deformities | B | 10 | 3 | 3 | 4 | 2,0 |
| 72 | Verzak, Željko | Epidemiology of caries activity in adolescents | B | 15 | 5 | 5 | 5 | 3,0 |
| 73 | Vodanović, Marin | Odontobiography - the basics of stomatognathic system meta-analysis | B | 20 | 5 | 0 | 15 | 4,0 |
| 74 | Vojvodić, Denis | Fiber reinforced polymer materials in prosthetic dentistry | B | 15 | 5 | 5 | 5 | 3,0 |
| 75 | Zadravec, Dijana | Digital radiological imaging of the H&N tumors | B | 15 | 3 | 6 | 6 | 3,0 |
| | | | | 1083 | 286 | 393 | 404 | 216 |

REQUEST FOR GRADING THE EXTRACURRICULAR ACTIVITIES (IIIRD SCORE GROUP)

Name and surname:

Address:

Phone: E-mail:

Student Status:

| Name of the Study | SEMESTER | ACADEMIC YEAR | FACULTY CERTIFICATE |
|--|----------|---------------|---------------------|
| Postgraduate doctoral study "Dental Medicine" | I/II | | |
| | III/IV | | |
| | V/VI | | |

Points in the IIIrd score group (144 points have to be scored, out of which 120 points are the minimum for the 1a, 1b and 2)

| Score group and the activity type | | | | Points | Number of research papers (student fills out this section) | Total (Committee fills out and verifies this section) |
|-----------------------------------|---|-----------------------------------|--------------|--------|--|---|
| Group I | a | CC/ SCIE journal | First author | Q1 | 80 | |
| | | | | Q2 | 70 | |
| | | | | Q3 | 60 | |
| | | | | Q4 | 50 | |
| | b | | Co-author | Q1 | 60 | |
| | | | | Q2 | 50 | |
| | | | | Q3 | 40 | |
| | | | | Q4 | 30 | |
| a B | Other international indices | First author | | 40 | | |
| | | Co-author | | 30 | | |
| Group 2 | Conference participation (presenting author at the lecture or at the poster presentation) | International oral presentation | | 30 | | |
| | | International poster presentation | | 20 | | |
| | | Local oral presentation | 15 | | | |
| | | Local poster presentation | 10 | | | |
| Group 3 | Symposium or Continuous Education Course attendance (In the last three years) | | | 5 | | |
| | | | | | | Total |

Condition: Within the 144 points, the candidate has to be the first author in at least one research paper in the 1a journal category, which is related to his/her doctoral dissertation, author or a co-author of at least one research paper in a CC/SCIE indexed journal and give a presentation on the international or local congress and scientific conference

| Number of scientific papers in which the candidate is the first author | No. Scientific Papers | Necessary for PhD |
|--|-----------------------|-------------------|
| Number of scientific papers from the 1a group in which the candidate is the first author and in which the topic is related to the candidate's dissertation | | min 1 |
| Number of scientific papers indexed in CC/SCIE in which the candidate is the author or co-author | | min 1 |
| Number of presentations at international or local congresses or conferences | | min 1 |

Must be provided:

- Copies of published scientific papers
- Copies of abstracts
- Verified confirmation on research papers' citation

In Zagreb, year

Date of the Committee Session: _____ (Student's signature)

Committee Chair Signature: _____ (Mentor's signature)

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For the publisher:

Professor Hrvoje Brkić, PhD
Dean

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Professor Zrinka Tarle, PhD
Vice-dean for science

Technical equipment:

Marko Ivančić,
Master of Information Technology

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Ivan Branko Šamija, prof.

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Registry:

Ines Muljat Skansi, Law Graduate
Head Secretary

Antun Vukšić

Head of the postgraduate study affairs

Contact:

Address: Petrinjska 34, Zagreb
Phone: 01/4807364
e-mail: avuksic@sfzg.hr

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