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| <b>Study program:</b> Integrated Academic Studies in Dental Medicine  |
| <b>Course title:</b> Paediatric Dentistry 2   |
| <b>Teacher:</b> Duska D. Blagojevic, Bojan B. Petrovic, Sanja B. Vujkov   |
| <b>Course status:</b> compulsory  |
| <b>ECTS Credits:</b> 5  |
| <b>Condition:</b> Paediatric Dentistry 1  |
| <b>Course aim</b><br>Students should gain basic knowledge in paediatric dentistry   |
| <b>Expected outcome of the course:</b><br><ul style="list-style-type: none"> <li>- Student should be able to perceive basic dental problems of children and establish diagnosis and treatment.</li> <li>- Students should gain knowledge of the medical procedures in paediatric dentistry.</li> </ul>  |
| <b>Course description</b><br><p><i>Theoretical education</i></p> <p>1. Child dentistry: definition, aims, importance and objectives. 2. The development of oral cavity and teeth, development of jaw and odontogenesis. 3. The teeth eruption: mechanism, theories, chronology, marking, histological and anatomic features of milk and permanent teeth. 4. Irregularities in teeth growth: classification and etiology. Irregularities in teeth growth, position, shape, size, number and color. Irregular teeth structure caused by common, local factors and intoxications. Hereditary and idiopathic structure irregularities. 5. Dentistry and children: diagnosis, anamnesis, regular check-ups. Planning of work with children, difference in psychological types of children. Dentistry registers. 6. X-ray in child dentistry, types of scanning, indications and protection. 7. Caries of milk teeth: properties, localization, diagnosis and therapy. Circulatory caries. 8. Treatment of caries of milk and permanent teeth: treatment of initial carious lesions. Preventive fillings. Treatment of advanced stages of caries. 9. Filling materials in child dentistry: materials for temporary and permanent filling (amalgam, composite, gas-ionomere). 10. Pain control and anesthesia in paediatric dentistry: application of local and esthetics in the preparation of oral cavity for tooth extraction. 11. Treatment of dental pulp and preapical tissue: pulp diseases, diagnosis and treatment of dental pulp of milk and permanent teeth. Periodontitis of milk teeth and permanent teeth, diagnosis, complications, therapy. Treatment of the teeth with partially developed roots. 12. Soft tissue diseases: types, classification, diagnosis and therapy. 13. Periodontal diseases of children: types, classification, diagnosis and therapy. Juvenile periodontal diseases. 14. Influence of common diseases on the oral cavity and teeth of children. 15. Oral surgery treatment of children: tooth extraction, indications and contra-indications. Emergency conditions in dentistry. Tumors and cysts. 16. Tooth injuries of milk and permanent teeth: types, diagnosis, complications and therapy. 17. Management of high-risk paediatric patients: children with heart and circulatory diseases, children with limited abilities- the use of local anesthetics. 18. Prosthetic treatment of children: specificities, principles, indications, fix and mobile compensations.</p> <p><i>Practical education</i></p> <p>1. Child dentistry: definition, importance, aims and objectives. Specificities of working with paediatric patients, pain control, first visit to the dentists. 2. Psychological types of children: establishing and special approach. 3. Diagnosing diseases of oral cavity and teeth diseases in children: medical history, examination, diagnosis and continuous check up. 4. X-ray diagnosis in child dentistry: methods, analysis of scans, indications, child protection during X-ray procedure. 5. Therapy plan in child dentistry: variations according to teeth types (milk, mixed, permanent). 6. Milk teeth caries: features and localization. 7. Specific preparation of milk tooth cavity: basic rules and principles. 8. Treatment of milk teeth caries: cavity preparation, deep caries of the milk teeth. 9. Complication of milk teeth caries: diagnosis, differential diagnosis of pulp diseases of milk teeth. 10. Treatment of pulp diseases of milk teeth: vital and mortal methods of curing. 11. Circulatory caries: clinical report, diagnosis, treatment. 12. Specific preparation of permanent tooth cavity. 13. Treatment of permanent teeth caries: initial carious lesion of the enamel, preventive filling, treatment of deep caries. 14. Treatment of caries complications in permanent teeth: vital and mortal methods of curing. Treatment of periodontitis. 15. Treatment of the teeth with partially developed roots: indications, techniques. 16. Emergency conditions in paediatric dentistry: first aid, acute dentogenic infections. 17. Medications and substrates in child dentistry: requirements to be met by substrates and drugs used in oral cavity. 18. Fillings in paediatric dentistry: materials for temporary and permanent filling. (amalgam, composite, glass-ionomere cements). 19. Anesthesia in paediatric dentistry: specificity, types, complications. 20. Specificities of oral surgery in children: preparation of the child for surgery, instruments. 21. Extraction of milk and permanent teeth in children: specificity, indications, contra-indications, complications. 22. Injuries of milk and permanent teeth: classification, first visit procedure. 23. Injuries of supporting tissue: classification, diagnosis, treatment. 24. Injuries of hard tissues: classification, diagnosis, treatment. 25. Oral diseases in children: classification, viral diseases, herpes stomatitis. 26. Periodontal diseases: etiology and classification of gingivitis</p> |

and parodontopathy and juvenile parodontopathy. 27. Treatment of periodontal diseases: oral hygiene, plaque control. Early detection and treatment. 28. Specificities of treatment of children with disabilities: special visits and treatments.

**Literature**

*Compulsory*

1. Goran Koch. Paediatric Dentistry: A Clinical Approach, John Wiley & Sons, Jun 29, 2009
2. Welbury R, Duggal M, Hosey MT. Paediatric dentistry. Oxford: Oxford University Press, 2005.

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|---------------------------------|------------------------|--------------|
| <b>Number of active classes</b> | <b>Theoretical: 30</b> | Practice: 75 |
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**Teaching methods**

Theoretical and practical

**Student activity assessment** (maximally 100 points)

| <b>Pre-exam activities</b> | <b>points</b>               | <b>Final exam</b> | <b>points</b> |
|----------------------------|-----------------------------|-------------------|---------------|
| Lectures                   | 5 attendance<br>10 activity | Written           | 20            |
| Practices                  | 5 attendance<br>20 activity | Oral              | 40            |
| Colloquium                 |                             | .....             |               |
| Essay                      |                             |                   |               |