

**Program of study** : Dentistry  
**Course** : Orthodontics 3  
**Abbreviation** : ST1/ZAB34  
**Schedule** : 24 hours of seminars  
: 12 hours of practical trainings  
**Course Distribution** : 5th year, 10th semester  
**Number of Credits** : 3  
**Course Form** : Seminars, practical trainings

**Practical trainings and seminars:**

**Garant:** prof. MUDr. Milan Kamínek, DrSc.

**Study:** Continuous. Orthodontic department, Institute of Dentistry and Oral Sciences Palackého 12, Olomouc from 8:00 to 11:00. Seminar room 1 above orthodontic department 2nd floor (UZQ203160), and surgery – change at 9:30. Šimkův sál (9).

	<b>Dates</b>	<b>Topic</b>	<b>Hours</b>	<b>Lecturers</b>
1	2.2.2023	<b>Planning of orthodontic treatment.</b>	<b>4,5</b>	Dostálová <i>Ličková, Ptáčková</i>
2	9.2.2023	<b>Anomalies in number of teeth. Interdisciplinary cooperation in treatment.</b>	<b>4,5</b>	Koniarová <i>Konečná, Stráňava</i>
3	16.2.2023	<b>Growth and development in orofacial region. Application of knowledge of growth and development in orthodontic treatment.</b>	<b>4,5</b>	Ptáčková <i>Konečná, Koniarová</i>
4	23.2.2023	<b>Interdisciplinary cooperation in treatment of large jaw anomalies.</b>	<b>4,5</b>	Sedlatá <i>Stráňava, Konečná</i>
5	2.3.2023	<b>Appropriate age for orthodontic treatment.</b>	<b>4,5</b>	Ptáčková <i>Koniarová, Stráňava</i>
6	9.3.2023	<b>Orthodontic treatment of adults.</b>	<b>4,5</b>	Koniarová, <i>Stráňava, Konečná</i>
7	16.3.2023	<b>Angle Class II, Div. 1, treatment. Interceptive treatment. Removable functional appliances</b>	<b>4,5</b>	Ptáčková <i>Koniarová, Konečná</i>
8	23.3.2023	<b>The rationale for orthodontic treatment.</b>	<b>4,5</b>	Koniarová <i>Stráňava, Ptáčková</i>
9	30.3.2023	<b>Revision of knowledge, practicit</b>		Štefková

- Completed by:** Practicavit, state rigorous examination segment no 2
- Segment of state rigorous examination will contain all relevant factors in the analysis of a patient's problem in order to formulate a rational complex treatment plan for patients according to their needs.
- Requirements:** 100% participation in seminars and good knowledge with subject of seminars.
- Literature:** Mitchell, L.: An Introduction to Orthodontics. 3rd ed. Oxford, Oxford University Press 2007. ISBN:978-0-19-856812-4 (£47.99)
- Ireland, A.J., McDonald, F.: The Orthodontic Patient: Treatment and Biomechanics. Oxford, Oxford University Press 2003. ISBN:978-0-19-851048-2 (£40.00)
- Cobourne, M.T., DiBiase, A.T.: Handbook of Orthodontics. 2nd ed. St.Louis, Elsevier 2014. ISBN: 978-0-7234-3450-4 (\$ 84.95)

### **State exam – Orthodontics, Dentistry**

1. Unerupted teeth. Diagnosis and treatment.
2. Examination of orthodontic patient. Records. Cephalometric analysis.
3. Examination of orthodontic patient. Records. Analysis of study models.
4. Environmental influences in etiology of orthodontic anomalies.
5. Suitable age for treatment of various malocclusions. Screening for orthodontic anomalies.
6. Team cooperation in treatment of severe skeletal anomalies.
7. Open bite, etiology, treatment.
8. Crossbite of upper incisor, treatment. Class III malocclusions, dental and skeletal pattern, treatment.
9. Treatment planning in orthodontics, indications of orthodontic extractions.
10. Heredity in orthodontics. Environmental influences in prenatal development.
11. Anomalies in shape, size and number of teeth. Anomalies in position of individual teeth, groups of teeth. Bite malocclusions.
12. Normal occlusion. Benefits of orthodontic treatment.
13. Class II, Division 2. Closed bite.
14. Postnatal growth of face and jaws.
15. Classification of occlusal and skeletal anomalies
16. Anomalies in number of teeth. Interdisciplinary cooperation in their management.
17. Biological basis of tooth movement and orthodontic treatment.
18. Fixed orthodontic appliances, components.
19. Removable orthodontic appliances (except plates).
20. Removable orthodontic appliances. Plates.
21. Crowding of teeth. Types, etiology, treatment.
22. Treatment planning in orthodontics, extractions of various types of teeth.
23. Serial extractions in orthodontics. Indications and contraindications.
24. Etiology of orthodontic anomalies.
25. Factors contributing to orthodontic relapse. Retention of orthodontic results.
26. Postnatal development of dentition. Growth of jaws. Dentoalveolar compensatory mechanism
27. Prenatal development. Orofacial clefts. Treatment.
28. Class II Division 1 malocclusions. Treatment in different age of patient.
29. Deep bite and treatment of large overbite. Lateral crossbite, treatment.