

Program of Study : Dentistry

Course : **Gnathology, Basic of Prosthodontics**

Abbreviation : ST1/ZAB11

Schedule : 15 hours of lectures
22 hours of practical trainings
10 hours of seminars

Course Distribution : 3th year, 6th semester

Number of Credits : 3

Course Form : Lectures, practical trainings

Lectures :

Guarantor of teaching: Doc. MUDr. Miloš Špidlen, Ph.D.

Supervisor of teaching: MDDr. Petr Jirásek

Study : Continuous, Institute of Dentistry and Oral Sciences Palackého 12,
2nd floor Library UZQ203030

12:00 – 13:30 – **ODD WEEKS (liché týdny)**

	Date	Subject	Hours	Teacher
1	17.2.2023	Introduction to gnathology and its importance Basic gnathology terms	2	Špidlen/ FRANCOVÁ
2	3.3.2023	Articulators and their importance Face - bows and their digitalisation	2	Špidlen/ JIRÁSEK
3	17.3.2023 ONLINE	Occlusion - concepts. Static and dynamic occlusion Temporomandibular joint - anatomy, movements of lower jaw Temporomandibular joint - disorders and therapy, dental splints/night guide	2,5 2 2	Špidlen/ ŠEDÝ Platform and time will be specified on Moodle
4	31.3.2023	Intermaxillary relations – possibilities by the edentulous patient	2,5	Špidlen/ JIRÁSEK
5	14.4.2023	Gerber conception Complete denture procedure	2	Špidlen/ JIRÁSEK

Seminars:

Guarantor of teaching: Doc. MUDr. Miloš Špidlen, Ph.D.

Supervisor of teaching: MDDr. Petr Jirásek

Teaching : Continuous, Institute of Dentistry and Oral Sciences Palackého 12,
13:30 – 15:00 – **ODD WEEKS (liché týdny) – Library UZQ203030**

		Téma	Poč.hod.	Vyučující
1	17.2.2023	Impression materials – classifications, indications, methods	2	Assistents from prosthodontics department
2	3.3.2023	Anatomical and individual impressions of partial edentulous and complete edentulous patient Model's laboratory procedure	2	Assistents from prosthodontics department
3	17.3.2023	Maxillo-mandibular relationship registration by the edentulous patient Occlusal inclinometer, occlusal bitefork	2	Assistents from prosthodontics department
4	31.3.2023	The basics of anesthesia in dentistry	2	Assistents from prosthodontics department
5	14.4.2023	TEST from topics 1,2,3,4		
	28.4.2023	Test retake	2	Assistents from prosthodontics department

Practical trainings :

Guarantor of teaching: Doc. MUDr. Miloš Špidlen, Ph.D.

Supervisor of teaching: MDDr. Petr Jirásek

Study : Continuous, Prosthetic department, Institute of Dentistry and Oral Sciences, Palackého 12,

13,00 – 15,15 – **EVEN WEEKS (sudé týdny)**

The student comes to the practical trainings in white clean clothes and shoes – he/she changes in the student's locker room.

Date	Subject	Hours	Teachers
24.2.2023	Equipment of prosthetic ambulance and its use in patient care.	3	Assistents from prosthodontics department
10.3.2023	Intermaxillary relations in the static relation. Diagnostic of the Angle's classes. Visualization of occlusal contacts in centric occlusion (maximal intercuspation). Record of the occlusal contacts into the schematic drawing of the occlusal surfaces.	3	Assistents from prosthodontics department
24.3.2023	Anatomical impression I - of the upper and lower dental arch in the stock trays – alginate impression material Centric occlusion registration	3	Assistents from prosthodontics department

7.4.2023	Public holiday		
21.4.2023	Anatomical impression II - of the upper and lower dental arch in the stock trays – alginate impression material	3	Assistents from prosthodontics department
5.5.2023	Anatomical impression II - of the upper and lower dental arch in the stock trays – alginate impression material - A-silicone, C-silicone The basics of anesthesia in dentistry	3	Assistents from prosthodontics department
19.5.2023	Axiography Digital face bow Articulator Protar programming	3	Assistents from prosthodontics department
26.5.2023	Intraoral scanner CREDIT EXAMINATIONS FROM CURRENT TOPICS	4	Assistents from prosthodontics department
	Substitutions of missed practical trainings - terms and conditions will be published in Moodle		

Completed by:

Credit

- Students will be examined from the topics listed for the credit by oral examination and/or test
- Topics: see syllabus
- Part of the credit will be the testing of manual skills acquired in the practical teaching of the subject

Exam

Requirements:

100% attendance in obligatory courses

According to the Dean's Directive [LF-B-18/14](#) to the Study and Examination Regulations of the Faculty of Education in Olomouc, the student can substitute a maximum of one third of compulsory education in the semester, provided he / she is properly apologized for missed lessons.

- 1) The student is required to come at least 10 minutes before the beginning of the practical exercise in order to prepare for practical exercises.
- 2) The student is required to attend practical exercises in clean, white working clothes and shoes. If she/he does not do so, she/he will be excluded from practicing with the necessity of substitution.
- 3) The use of mobile phone and other similar devices is prohibited in practical exercises. If a student breaks the rule, she/he will be excluded from practicing with the necessity of substitution.
- 4) If a student violates educational or ethical rules, he/she will be excluded from the practical exercise with the necessity of substitutions.
- 5) The student can miss only 1/3 of the compulsory education -

with the necessity of apology to the teacher and substitution of the missed practical/seminar.

- 10% of the allowed absence without apology and substitution applies only to subjects where the practical training contains 10 or more practical exercises / seminars. However, it is recommended to apologize to the teacher in person / by email.

6) If the student does not have sufficient knowledge in the practical exercise, it will be excluded from the practical exercise with the necessity of substitution

Recommended literature :

1. Dawson Peter E., Functional Occlusion From TMJ to Smile Design, The Dawson center for advanced dental study St. Peterburg, Florida, Mosby, 2007
2. The Glossary of prosthodontic terms, The journal of prosthetic dentistry, Volume 81 Number 1, 1999
3. Shillingburg, H.. Fundamentals of Fixed Prosthodontics, 3rd Edition. Quintessence Publishing, 1997
4. Deepak Nallaswamy: Textbook of prosthodontics
5. Davies SJ., Gray RJM. : A Clinical Guide to Occlusion, BDJ Books, London, 2002.
6. www.condylator.com
7. www.kavo.de
8. MOODLE/upol

Credit topics:

- 1) Basic gnathology terms
- 2) Centric occlusion, centric relation
- 3) Impression materials – summary
- 4) Impression methods – summary (fixed, removable)
- 5) Elastomeric impression materials
- 6) Hydrocolloid impression materials
- 7) Maxillo-mandibular relations registration possibilities – edentulous patient
- 8) Maxillo-mandibular relations registration possibilities – dentulous and partial edentulous patient
- 9) Complete denture procedure – step by step
- 10) Face-bows – indications and uses
- 11) Articulators – classification, uses
- 12) Gerber conception complete denture procedure
- 13) Equipment of prosthetic ambulance and its use in patient care
- 14) Fundamentals of local anesthetic and anesthesia.