

Program of Study	:	DENTISTRY
Course	:	SOFTWARE EQUIPMENT IN DENTAL OFFICE
Abbreviation	:	LBF/ZAB21
Schedule	:	15 hours of seminars 30 hours of practical classes
Course Distribution	:	third year, summer semester
Number of Credits	:	2
Course Form	:	seminars, practical classes

The course will be held on Tuesdays from 7:30 to 9:45 (on Mondays from 17:45 to 20:00 during weeks 3, 4, 5 and 6) in the computer room of the new building.

Teachers: MUDr. Martin Sněhota
Ing. Jan Valošek
Mgr. Jaromír Vachutka, Ph.D.
Mgr. Jana Zapletalová, Dr.
Mgr. Kateřina Langová, Ph.D.
Mgr. Romana Applová

Seminars

	Date	Topic	Hrs.	Teacher
1	14.2.	Application software – PC Dent I.	1	VACHUTKA
2	21.2.	Application software – PC Dent II.	1	VACHUTKA
3	28.2.	Application software – MS Word and Google Docs	1	VALOŠEK
4	7.3.	Application software – MS Excel and Google Sheets	1	VALOŠEK
5	14.3.	Application software – MS PowerPoint and Google Slides	1	VALOŠEK
6	21.3.	Analysis of image and x-ray scans, SW Romexis	1	VALOŠEK
7	28.3.	Application software – XDent	1	VACHUTKA
8	4.4.	Basis of biomedical statistics - online	1	LANGOVÁ ZAPLETALOVÁ
9	11.4.	Information sources for dentistry, bibliometrics, information quality evaluation.	1	APPLOVÁ
10	18.4.	Information sources for dentistry, bibliometrics, information quality evaluation.	1	APPLOVÁ
11	25.4.	3D scanning of dental replacement models, jaw.	1	SNĚHOTA
12	2.5.	3D print of dental replacement models.	1	SNĚHOTA
13	9.5.	3D milling of dental replacement models.	1	SNĚHOTA
14	16.5.	Presentation of students seminar works	1	VACHUTKA
15	23.5.	Presentation of students seminar works	1	VACHUTKA

Practical classes

	Date	Topic	Hrs.	Teacher
1	14.2.	Solving of given task in application software PC Dent with real data, patient cardfile formation, addition of actual information, image objects, recording of medical interventions during a treatment, saving and making a backup of data.	2	VACHUTKA
2	21.2.	Solving of given task in application software PC Dent with real data, patient cardfile formation, addition of actual information, image objects, recording of medical interventions during a treatment, saving and making a backup of data.	2	VACHUTKA
3	28.2.	Office software, text editor MS Word and its application in document creation using various objects, e.g. pictures, photos, graphs etc. Google Docs.	2	VALOŠEK
4	7.3.	Office software, spreadsheet MS Excel and its applications in data analysis. Google sheets.	2	VALOŠEK
5	14.3.	Presentation software MS PowerPoint, making a presentation for dentistry subject (topic) using internet resources from internet databases. Google Slides	2	VALOŠEK
6	21.3.	Work with application software Romexis, software for scan recording from different types of x-ray and 3D imaging instruments, storage and archiving on patient card.	2	VALOŠEK
7	28.3.	Work with software XDent, completion of patient card, entry of diagnose according to its code and recording of medical interventions during a treatment.	2	VACHUTKA
8	4.4.	Basic principles of database formation, data organization and sorting. Functions, calculations and summaries in MS Excel. Basic description of statistic data, contingency table formation in Excel, presentation of graphic data. Hypothesis testing via statistic functions in Excel. Two sample t-test, paired t- test, chi-square test, dependency analysis, correlation coefficient and linear regression.		LANGOVÁ ZAPLETALOVÁ
9	11.4.	Basic information sources for dentistry. Databases, journals, internet portals. Principles of evidence based medicine in dentistry.	2	APPLOVÁ
10	18.4.	Models of reviews, document selection according to hierarchy of evidence. Evaluation parameters of internet resources, bibliometrics as a science for information quality measurement.	2	APPLOVÁ
11	25.4.	3D scanning of dental replacement models, jaw.	2	SNĚHOTA
12	2.5.	3D print of dental replacement models.	2	SNĚHOTA
13	9.5.	3D milling of dental replacement models.	2	SNĚHOTA
14	16.5.	Presentation of students seminar works.	2	VACHUTKA
15	23.5.	Presentation of students seminar works.	2	VACHUTKA

Completed by: Practicavit (Course Unit Credit)

Requirements: 100% attendance at seminars and practical classes, evaluation of given documents

Internet resources:

www.stoma.upol.cz

Instruction manual for software Romexis, PC Dent and Dentist +.

Prof. RNDr. Hana Kolářová, CSc.
Head of Department