DIGITAL DENTISTRY

1	Course Title:	DIGITAL DENTISTRY
2	Course Code:	DHS1006
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	1.00
9	Practice (hour/week):	1.00
10	Laboratory (hour/week):	0
11	Prerequisites:	Course attendance is compulsory to 70%.
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. BÜLENT BAYDAŞ
15	Course Lecturers:	Prof.Dr. Bülent Baydaş
16	Contact information of the Course Coordinator:	bulentbaydas@uludag.edu.tr
17	Website:	
18	Objective of the Course:	To explain the place and importance of rapidly developing technological developments in dentistry applications. To teach what are easier and faster quality digital therapy technologies. To teach the use of patient diagnosis and treatment records by making applications and the work flow related to the production to be made.
19	Contribution of the Course to Professional Development:	To explain the place and importance of rapidly developing technological developments in dentistry applications. To teach what are easier and faster quality digital therapy technologies. To teach the use of patient diagnosis and treatment records by making applications and the work flow related to the production to be made.
20	Learning Outcomes:	
	1	To be able to follow technological developments in dentistry and learn how to use them and to save time and space by easy archiving
	2	To learn 3D imaging technologies used in dentistry and to reduce the margin of error in patients with the use of these technologies
	3	To be able to make easier, faster and more effective diagnosis and treatment.
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21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Introduction to digital dentistry	

2	Digital archiving, software and computer hardware in dentistry	
3	"Data acquisition in digital dentistry technologies 1 -Radiological Imaging techniques "	Examination of 3D records taken with CBCT
4	"Data acquisition in digital dentistry technologies 2 -Optical Scan "	Application by intraoral scanner with patients
5	"Digital Production Technologies in Dentistry 1 Machining technology CAD-CAM "	
6	"Digital Production Technologies in Dentistry 2 The place of -3 D printers in Dentistry "	Usage of 3D printer and printing at the clinic
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8	3D Dental Photos	3D photo shooting and application in the clinic
9	Dental Programs Used in Digital Planning 1	Clinical application
10	Dental Programs Used in Digital Planning 2	Clinical application
11	Work flow between Clinic-Planning-Laboratory	
12	Planning a Digital Smile Design1	Clinical application
13	Planning a Digital Smile Design2	Clinical application

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	14	1.00	14.00
Self study and preperation	15	4.00	60.00
Homeworks	1	5.00	5.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	1.00	1.00
Quiz	0	0.00	
Others	0	0.00	0.00
Final Exams	1	1.00	1.00
Total Work Load			95.00
Total work load/ 30 hr			3.10
ECTS Credit of the Course			3.00

22	Textbooks, References and/or Other Materials: 1-Mylash, Radi, and Carl E. Driscoll. Clinical Applications of Digital Dental Technology. Wiley Blackwell, 2015. Reference and Preview of the Future. Quintessence, 2018.
23	**TERM LEARNING ACTIVITIES** / **NUMBER** / **WEIGHT**
	Midterm Exam 1 40.00 Quiz 0 0.00 Home work project 0 0.00 Final Exam 1 60.00 Total 2 100.00 Contribution of Term (Year) Learning Activities to 40.00
	Contribution of Final Exam to Success Grade 60.00
	Total 100.00
	Measurement and Evaluation Techniques Used in the Course Multiple choice exam will be applied.
24	**ECTS / WORK LOAD TABLE**

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	1	1	3	4	4	1	1	1	1	1	1	1	1	1	1	0

ÖK2	1	1	1	3	3	1	1	1	1	1	1	1	1	1	1	0
ÖK3	1	1	3	1	3	1	1	1	1	1	1	1	1	1	1	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**