Course Syllabus

Code - Course Title	**DKT419 - Basic Imaging and Analysis Methods in SLT**
Course Type	VII. SEMESTER
Laboratory + Practice	2+0
ECTS	**2.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	DR. ÖĞR. ÜYESİ EREN BALO

Mode of Delivery	The mode of delivery of this course is face to face
Place of Delivery	On Campus
Used Educational Platforms	Online
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There is no recommended optional programme component for this course
Recommended Resources	Baken, R. J., & Orlikoff, R. F. Clinical Measurement of Speech and Voice.Leonard, R., & Kendall, K. Dysphagia Assessment and Treatment Planning: A Team Approach.Stemple, J. C., Roy, N., & Klaben, B. K. Clinical Voice Pathology: Theory and Management.Kummer, A. W. Cleft Palate and Craniofacial Conditions: A Comprehensive Guide to Clinical Management.Holmqvist, K., et al. Eye Tracking: A Comprehensive Guide to Methods and Measures.
Work Placement	There is no work placement for this course
Aims of the Course	The aim of this course is to introduce the principles of basic imaging (VFSS, FEES, videolaryngostroboscopy, nasopharyngoscopy, MRI, ultrasonography, etc.) and analysis (acoustic, aerodynamic, nasometer, EMG, eye-tracking) methods used in the assessment of language, speech, voice, resonance, and swallowing disorders in speech and language therapy, and to provide students with the basic skill of interpreting the findings obtained from these methods within the clinical decision-making process.

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Requirements for data collection and evaluation	
Week - 2		Selecting the Objective Imaging and Analysis Tools	
Week - 3		Videolarynostroboscopy and Stroboscopy	
Week - 4		Fiberoptic Endoscopic Evaluation of Swallowing (FESS) and Other Methods	
Week - 5		EMG and EEG	
Week - 6		MRI, CT, DTI and PET	
Week - 7		TMS and tDCS	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 8		Eye-tracking and eye-tracking studies	
Week - 9		Ultrasound and Electropalatography	
Week - 10		Instrumental acoustic assessment on voice, swallowing and resonance disorders	
Week - 11		Examples and analyses of imaging approaches	
Week - 12		Researches about imaging tools	

Learning Outcomes

#	Learning Outcome
1	Explain the concepts of imaging and analysis.
2	Understands the principles of data collection, evaluation and diagnosis approach.
3	List basic imaging and analysis methods used in the evaluation of language and speech disorders.
4	Compares the advantages and limitations of imaging and analysis methods.
5	Interprets the primary findings obtained through imaging and analysis methods.

Sustainable Development Goals

✓ Health and Quality of Life ✓ Quality Education

Course Theme

✓ Health Sciences and Medical Technologies

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	2.00	12	24
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	2.00	1	2
Ödevler	5.00	1	5
Proje - Rapor - Sunum Hazırlama	0.00	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	5.00	1	5
Final Sınavı Hazırlığı (sınav süresi dahil)	5.00	1	5
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	2.00	2	4
Staj Uygulaması	0.00	0	0
		Calculated ECTS	**2.0**

Assessment Method and Passing Requirements

✓ Multiple Choice Test ✓ Short-Answer Test ✓ True-False Test ✓ Fill-in-the-Blank Test

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	40
Final Exam	1	60
	Sum (%)	**100**