Course Syllabus

Code - Course Title	**DKT114 - Anatomy and Physiology of Language and Speech**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**3.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	ARAŞ. GÖR. DR. TUĞÇE NERGİZ

Mode of Delivery	The course will be given face to face.
Place of Delivery	On Campus
Used Educational Platforms	Face-to-face
Prerequisites	There are no prerequisites or co-requisites for the course
Courses Recomended	There are no recommended courses.
Recommended Resources	McFarland, D. H. (2022). Netter\'s Atlas of Anatomy for Speech, Swallowing, and Hearing-E Book: Netter\'s Atlas of Anatomy for Speech, Swallowing, and Hearing-E Book. Elsevier Health Sciences.Rouse, M. H. (2019). Neuroanatomy for speech-language pathology and audiology. Jones & Bartlett Learning.
Work Placement	There is no internship or practice that students are required to do for the course.
Aims of the Course	This course aims to teach the anatomical and physiological foundations of language, speech, hearing, and swallowing, and to develop students' professional background by providing an understanding of the functions of the structures involved in communication processes and their neurological control mechanisms.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1	**LO-1**	Anatomical and physiological bases of communication	Lecture, Question & Answer
Week - 2	**LO-14**	Functional neuroanatomy	Lecture
Week - 3	**LO-13** **LO-14**	Neurophysiology	Lecture
Week - 4	**LO-2** **LO-3**	Respiratory anatomy and physiology	Lecture, Question & Answer
Week - 5	**LO-2** **LO-3**	Respiratory anatomy and physiology	Lecture, Question & Answer
Week - 6	**LO-4**	Phonation anatomy and physiology	Lecture, Question & Answer
Week - 7	**LO-4**	Phonation anatomy and physiology	Lecture, Question & Answer
Week - 8	**LO-6** **LO-7**	Anatomy and physiology of articulation and resonance	Lecture, Question & Answer
Week - 9	**LO-6** **LO-7**	Anatomy and physiology of articulation and resonance	Lecture, Question & Answer

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 10	**LO-3 LO-5 LO-10 LO-11 LO-13 LO-14**	Anatomy and physiology of deglutition and mastication	Lecture, Question & Answer
Week - 11	**LO-3 LO-5 LO-10 LO-11 LO-13 LO-14**	Anatomy and physiology of deglutition and mastication	Lecture, Question & Answer
Week - 12	**LO-8 LO-9 LO-11 LO-13 LO-14**	Hearing anatomy and physiology	Lecture, Question & Answer
Week - 13	**LO-8 LO-9 LO-11 LO-13 LO-14**	Hearing anatomy and physiology	Lecture, Question & Answer
Week - 14	**LO-1 LO-2 LO-3 LO-4 LO-5 LO-6 LO-7 LO-8 LO-9 LO-10 LO-11 LO-12 LO-13 LO-14**	General review	Lecture, Question & Answer, Discussion

Learning Outcomes

#	Learning Outcome
1	Explains the basic anatomical organization of the human body and anatomical terminology. It defines the basic tissue types and their structure-function relationships.
2	Explains the anatomical structures and physiological functions of the respiratory system. It evaluates the role of the respiratory system in speech production.
3	Explains the relationship between breathing, speech, and swallowing processes. It interprets the effects of basic clinical conditions of the respiratory system on speech and swallowing.
4	Explains the role of the supralaryngeal vocal tract in speech production.
5	Explains the functions of the cranial and facial skeleton in speech, chewing, and swallowing.
6	Describes the anatomical organization of oral, nasal, and pharyngeal structures.
7	Describes the anatomical and physiological characteristics of the structures involved in articulation.
8	Knows and describes the anatomical structures and physiology of the outer, middle, and inner ear of the auditory system.
9	It explains how auditory information flows and the role of the nervous system.
10	Knows the general anatomy and physiology of swallowing function.
11	Explains the interaction of cortical, subcortical, and brainstem structures in the neurological control of speech, hearing, and swallowing.
12	Describes the cortical areas involved in language, speech, motor control, and sensory processing.
13	Describes the anatomical features and functions of cranial nerves. Explains the cranial nerves involved in speech, swallowing, hearing, and articulation.
14	Interprets the relationship between neuroanatomical structures and language, speech, and swallowing disorders. Explains the relationship between synaptic transmission and neurological control mechanisms and communication behaviors.

Sustainable Development Goals

✓ Health and Quality of Life

Course Theme

✓ Health Sciences and Medical Technologies

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	3.00	14	42
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	3.00	5	15
Ödevler	0.00	0	0
Proje - Rapor - Sunum Hazırlama	0.00	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	1.00	6	6
Final Sınavı Hazırlığı (sınav süresi dahil)	1.00	6	6
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0.00	0	0
Staj Uygulaması	0.00	0	0
		Calculated ECTS	**3.0**

Assessment Method and Passing Requirements

✓ Multiple Choice Test

Community Service Activity

This course does not include any Community Service activities.