

**TURKISH REPUBLIC**  
**USKUDAR UNIVERSITY**  
**FACULTY of HEALTH SCIENCES**  
**SPEECH AND LANGUAGE THERAPY DEPARTMENT**  
**COURSE DESCRIPTIONS**

**YEAR ONE**

**1<sup>st</sup> SEMESTER (FALL)**

**DKT113 Linguistic Aspects of Human Communication**

**(2+0) 2 ECTS: 3**

Overview of linguistics science with emphasis on sentence and word structure, sound systems, and modes of classification; introduction to phonetics, phonology, morphology; basic concepts and methodology. Presenting further information about sentence and word structure, basic concepts and methodology in syntax, semantics and pragmatics; introduction to language acquisition, psycholinguistics, brain and language studies; contribution of linguistic studies in understanding speech and language disorders.

**DKT123 Articulatory Phonetics**

**(0+2) 1 ECTS: 2**

Phonetic sciences: terms and concepts; speech organs and functions; characteristics of speech sounds; vowel sounds; consonant sounds; minimal and maximal differences; distinctive features; theories explaining the formation of speech sounds; phonation and sound quality; prosodic features; the International Phonetic Alphabet; sounds of the turkish language; phonetic analysis techniques; acoustic and aerodynamic measurement tools and applications.

**DKT105 Basic Physics and Physics of Sound for SLTs**

**(2+0) 2 ECTS: 3**

Basic principles in physics with special reference to human speech; mechanical and acoustic properties of human speech; techniques and methods used in physics to investigate human speech; basic terminology and concepts.

**SBF142 Basic Anatomy**

**(2+0) 3 ECTS: 4**

Definition anatomy and relevant terminology; organization of the body; anatomical posture:anatomical planes andsections; anatomic structure of the human body; cell: tissues, membranes; cavities in the body; systems; central and peripheral nervous system; motor pathways; head and neck anatomy; lower and upper extremity; voice, articulation, hearing, breathing, swallowing; resonance structures: muscles, bones, nerves; imaging of anatomical structures.

**SBF128 Basic Physiology**

**(3+0) 3 ECTS: 5**

Definition of physiology and relevant terminology; functions of anatomical structures of the human body and mechanisms; cell physiology; neural and hormonal communication; neural transmission; central and peripheral nervous system operations; muscle physiology; functioning of the respiratory system; circulation; fluid and acid-base balance; ingestion system operations; head and neck physiology;

language, speech and swallowing required for construction; voice, articulation, hearing, breathing, swallowing and resonance structures functions.

**PSI131 Psychology**

**(3+0) 3 ECTS: 4**

Basic concepts and theories in psychology, biological basis of behavior, growth, learning, memory, language and thinking, basic impulses and instincts, feelings and emotions, intelligence, social, relationships with functional impairments and psychological changes in relation to disabilities.

**DKT115 Intro to Communication, Language and Speech Disorders**

**(2+0) 2 ECTS: 3**

Introduction to speech and language therapy (SLT) profession: Historical background of SLT as an independent profession, global and local milestones of professional development; roles and responsibilities of Speech and Language Therapists (SLTs); defining human communication-language-speech processes; classification of communication-language-speech

**TURK101 Turkish Language-I**

**(2+0) 2 ECTS: 3**

The definition of language and culture / the relationship between language and culture, the place and historical development of Turkish language among world languages, what is dialect and accent? Spelling rules, sounds and syllables, vocabulary, sentence formation, sentence elements, some diction features of Turkish.

**ATA101 Atatürk's Principles and History of Turkish Revolution-I**

**(2+0) 2 ECTS: 3**

It includes knowing the features of Turkish Revolution and the similar concepts, the reforms realised by The Ottoman Empire before the Turkish Revolution, Turkish Independence War, the announcement of the republic, the importance of Atatürk's revolutions and the factors threatening them, the events, ideas and the principles in the process of the birth of modern Turkey.

**ING101 English-I**

**(3+0) 3 ECTS: 3**

This is an elementary English course designed for beginners of English language. The learners are expected to develop four basic language skills; listening, speaking, reading and writing through various kinds of teaching techniques and practices. The learners are exposed to basic language structures and vocabulary with the help of authentic materials within real life context. The learners are supposed to be at pre-intermediate English level at the end of the course.

**RKUL101 University Culture-I**

**(0+2) 1 ECTS: 1**

This course aims to encourage students acquire an intellectual insight into social, cultural and political events and to have a multidisciplinary perspective besides their general curriculum; to guide them to adopt an unbiased view, to be critical and to develop analytical acting ability. Students are given the opportunity to encounter with public leading figures in scientific, technical, social, political and cultural areas beyond classroom. For this course, students are asked to attend seminars and talks delivered by experts from different disciplines on and beyond the campus. Students are expected to attend about 48-50 conferences by the end of their four year study.

## **YEAR ONE**

### **2<sup>nd</sup> SEMESTER (SPRING)**

#### **DKT104 Neuroanatomy and Neurophysiology of Speech and Language (3+0) 3 ECTS: 4**

Anatomical, physiological, neurological and neuroanatomical basics of speech and language process; central and peripheral nervous system: cerebral regions of the brain and its functions; the central and peripheral organs; neural signal processing, neuron communication, neurotransmitters and functions, neural network connections, intentional and unintentional motor control mechanisms, cortical structures and functions, brain function in the localization lokalizasyon and holistic look at speech and language functions; functions of peripheral structures in speech; functional asymmetry; neuroplasticity; split brain studies, neuroscientific approach to speech and language disorders with clinical examples.

#### **DKT224 Speech Science and Acoustic Phonetics (2+0) 2 ECTS: 3**

Acoustic features of speech processes: the physics of sound, sound waves, frequency, intensity, time, pressure, pitch and height concepts; phonetics: phonetics and related concepts; speech sounds; speech perception; acoustic properties of vowels and consonants; speech prosody; computers and speech science; the role of the speech and language therapist.

#### **DKT108 Hearing Science (2+0) 2 ECTS: 2**

Acoustic properties of hearing processes: the physics of sound, sound waves, frequency, intensity, time, pressure, pitch and height concepts; hearing science and associated concepts; hearing system and its functions; physical properties of the hearing event and investigation methods. disorders; a general perspective about its causes; introducing common communication- language-speech disorders; establishing professional cooperation with other disciplines; roles and responsibilities of different professionals and team-work.

#### **PSI239 Positive Psychology and Communication Skills (3+0) 3 ECTS: 5**

This is an approach that enable individuals realize their own resources and values to be happy, peaceful, successful and highly satisfied with their lives. Usage of these resources and values creatively and appropriately allow individual to exert their personal and cultural potential with a conscious choice. In this course, students will evaluate researches and concept studies on different subjects and theoretical approaches (meaningful life, feeling of thankfulness, happiness, hope, optimism, positive emotions, post-traumatic personal growth, endurance, self-perception, strength, time perception). Students will learn how to use methods such as brain mapping, signature strengths, gratitude journal, seven ways increase happiness (learned optimism, thankfulness). And to inform students about human beings and their basic communicative needs; conceptual aspects of communication. Communication and perception are examined within the framework of basic communication problematic.

#### **DKT114 Clinical Linguistics (2+0) 2 ECTS: 3**

Clinical linguistics: definition; linguistics and the relationship between language and speech therapy; contribution to the field of language disorders; evaluation of speech and language disorders using a

linguistic approach. Implementing clinical linguistics for language and speech therapy; communication development and disorders: linguistic overview; linguistic theories of language disorders and descriptions; concepts of psycholinguistics and neurolinguistics; Turkish phonology, phonetics, semantics, syntax, format and pragmatic components; clinical linguistics methods and analysis; language assessment and therapy instruments / testst; natural language data collection techniques.

**DKT116 Clinical Phonology**

**(2+0) 2 ECTS: 3**

Clinical phonology: definitions and concepts; the importance of phonology in speech and language therapy; theory and practice in clinical phonetics; differential characteristics theory; natural phonological theory; linguistic universals; new theories; use phonological processes in clinical evaluation; phonological analysis methods; phonological development in children with and without speech and language pathology; phonological disorders: definition and classification; phonological data collection: phonetic and phonemic repertoire; analysis of phonological processes; applied studies.

**TURK102 Turkish Language-II**

**(2+0) 2 ECTS: 3**

Composition, oral composition, oratory.

**ATA102 Atatürk's Principles and History of Turkish Revolution II**

**(2+0) 2 ECTS: 3**

It includes knowing the features of Turkish Revolution and the similar concepts, the reforms realised by The Ottoman Empire before the Turkish Revolution, Turkish Independence War, the announcement of the republic, the importance of Atatürk's revolutions and the factors threatening them, the events, ideas and the principles in the process of the birth of modern Turkey.

**ING102 English-II**

**(3+0) 3 ECTS: 3**

This is an elementary English course designed for beginners of English language. The learners are expected to develop four basic language skills; listening, speaking, reading and writing through various kinds of teaching techniques and practices. The learners are exposed to basic language structures and vocabulary with the help of authentic materials within real life context. The learners are supposed to be at pre-intermediate English level at the end of the course.

**RKUL102 University Culture-II**

**(0+2) 1 ECTS: 1**

This course aims to encourage students acquire an intellectual insight into social, cultural and political events and to have a multidisciplinary perspective besides their general curriculum; to guide them to adopt an unbiased view, to be critical and to develop analytical acting ability. Students are given the opportunity to encounter with public leading figures in scientific, technical, social, political and cultural areas beyond classroom. For this course, students are asked to attend seminars and talks delivered by experts from different disciplines on and beyond the campus. Students are expected to attend about 48-50 conferences by the end of their four year study.

## **YEAR TWO**

### **3<sup>rd</sup> SEMESTER (FALL)**

#### **DKT203 Audiology for Speech and Language Therapists**

**(2+0) 2 ECTS: 3**

Basic knowledge about audiology; responsibilities and job definition of audiologists; importance and contributions of audiology for speech and language therapist; anatomy and physiology of hearing; hearing loss; degrees of hearing; hearing tests; the impact of hearing loss on language acquisition; cochlear implantation principles; language development in children with cochlear implants; major principles of rehabilitation in children using cochlear implants and hearing aids.

#### **SBF125 Biostatistics**

**(2+0) 2 ECTS: 3**

Statistics, sampling, evaluation of measurable data; probability, basic probability distributions; significance, significance tests; non-parametric statistics for quantitative data; analysing qualitative data of distribution; analysing variance; evaluation of relations between variables; correlation, regression, diagnostic testing; confidence in statistics and interval estimation; basic test schemes; submission of data and evaluation of computer and statistical analysis methods; basic concepts of statistics with reference to health and health-related institutions.

#### **DKT 213 Introduction to Cognitive Neuroscience**

**(2+0) 2 ECTS: 3**

Neuroscience and cognitive neuroscience: discipline area, historical development and its relationship with other disciplines; organization of the nervous system, brain and psychological mechanisms, relationships between cognitive functions; space, attention, perception, memory, emotion, language, complex visual perception, reasoning and abstraction, mathematics, planning and sequencing, configuration, praxis, face recognition, and object recognition and executive functions; cognitive development and the information; deterioration of the nervous system caused by damage; introduction to brain imaging methods and techniques (PET, FMRI, SPECT, etc.); radiological investigations; case studies in language disorders in relation to cognitive neurology.

#### **SBF145 Research Methods in Healty Sciences**

**(2+0) 2 ECTS: 3**

Basic concepts: science, method, theory, hypothesis, assumption, paradigm, deduction, induction, subject, object; approaches for scientific information: enlightenment, social sciences and natural sciences distinction, the positivist approach, interpretive approach; methodological differences in health sciences; data acquisition and measurement techniques; basic research methods: descriptive, correlational, causal-comparative, experimental research; basic research techniques: observation, interview, tests, surveys, scales; scientific research and problem solving relationship; ethics of scientific research; research topics in health sciences.

#### **DKT202 Psycholinguistics: Theory, Language Development and Delayed Speech and Language**

**(2+0) 2 ECTS: 3**

Psycholinguistics as a field; language as a cognitive system; language and thought relation; nature of language competence; psychological mechanisms of language acquisition and production; language

processing-information processing parallelism; relationship among memory, attention, and cognition; different approaches in psycholinguistics; theories of language acquisition; language acquisition and developmental processes in normal children: stages of linguistic development in toddlers, preschoolers and school-age children; delayed speech and language; language development in children with disabilities in comparison to normal development; case studies on children's language development; language development among Turkish children; investigation of language acquisition research in Turkey.

**DKT217 Articulation and Phonological Disorders**

**(2+0) 2 ECTS: 3**

Articulation and phonology: definitions and terms; articulation and phonology relationship; articulation and phonological disorders classification; biological and neurological components of pronunciation and phonetics; etiology of pronunciation and phonological disorders; effects of pronunciation and phonetics disorders on academic and social skills; evaluation of phonological disorders; therapy methods for phonetic and phonological disorders.

**YEAR TWO**

**4<sup>th</sup> SEMESTER (SPRING)**

**DKT214 Neuro-linguistics**

**(2+0) 2 ECTS: 3**

Communication-language-speech and experimental neuroscience; neurolinguistic research methods and techniques; aphasia and acquired language disorders; traditional and contemporary evaluation approaches; hypothesis testing approach to language assessment; brain structure and language studies; neuro-imaging in linguistic research.

**DKT232 Clinical Assessment in Speech and Language Therapy**

**(2+2) 3 ECTS: 4**

Assessment in speech and language therapy: psychometric measurement, basic screening techniques in speech and language disorders, assessment and interview techniques; principles and applications; formal and informal assessment, natural data collection and analysis; interpretation of data acquired through interview techniques and reporting; speech and language tests; getting the story, interaction and observation; presenting and discussing results.

**DKT288 Clinical Practice I**

**(0+10) 5 ECTS: 5**

On site clinical observation of speech and language disorders and therapy applications; observing management of disabilities and related speech-language disorders in state or private rehabilitation centers; communicating with speech and language therapists working in the field; gathering information about different case loads and management approaches in various settings.

**PSI 232 Psychology of Learning**

**(3+0) 3 ECTS: 5**

Exploring learning and conditioning principles theoretically and introducing theorists in the view of cognitive & behavioral approach. Fundamental principles of learning, factors of inner and external factors on learning, physiology of learning, theories of learning, variations of learning.

**RPRE 104 Entrepreneurship and Project Culture****(2+0) 2 ECTS: 3**

This course gives students comprehensive information about how to implement projects instead of a graduation project. This is a student-centered course and involves topics such as setting real life goals by bringing together academics of all disciplines, discovering new things, focusing on problem solving, developing time management skills and community service.

**YEAR THREE****5<sup>th</sup> SEMESTER (FALL)****DKT301 Acquired Neurogenic Language Disorders****(2+2) 3 ECTS: 4**

Aphasia (loss of words): definitions, terminology; cause-effect relationship between understanding language, reading-writing and the damage; types of aphasia; clinical and linguistic classification and evaluation; evaluation of language models; standard language testing; adaptation of standard tests to Turkish, and related adaptation problems; therapy models, therapy and implementation plan; language disorders in right brain diseases; causes, assessment and therapy. Aphasia caused by neurological disorders; acquired language disorder; discussion of factors for prognosis; evaluation individuals with aphasia aphasia and determining the type; traditional and special methods in aphasia therapy: stimulation therapy, MIT, HELPSS, PACE, RET, CIT; aphasia therapy planning and documentation; clinical practice.

**DKT335 Childhood Language Disorders an Early Intervention****(3+0) 3 ECTS: 4**

Definition of early intervention; the importance of early interventions in speech and language disorders; language development in children and related theories and approaches; early intervention in childhood language development disorders: child-centered & family-centered approaches, clinician-centered approaches; awareness about the importance of early intervention.

**DKT313 Motor Speech Disorders: Dysarthria & Apraxia****(2+2) 3 ECTS: 4**

Motor speech disorders: definition, classification, types, causes; acquired dysarthria and apraxia: developmental dyspraxia; lower and upper motor neuron disorders; pyramidal, extrapyramidal, cerebellar system disorders; issues in speech motor programming; assessment and therapy methods in dysarthria and apraxia; cerebral palsy: assessment, differential diagnosis and therapy methods, application-oriented activities.

**DKT315 Voice Disorders: Assesment and Therapy****(2+2) 3 ECTS: 3**

Early childhood and adulthood assessment of voice disorders: history taking, perceptual assessment and analysis, instrumental measurements; interpretation and reporting; collaboration with other disciplines: ear nose & throat physicians and therapists; prevention of voice disorders; therapy approaches in voice disorders: vocal hygiene and protection techniques; vocal function exercises, accent therapy, a variety of techniques; management of laryngectomy cases.

## **YEAR THREE**

### **6<sup>th</sup> SEMESTER (SPRING)**

#### **DKT318 Speech and Language Therapy with Cleft Palate Cases (2+2) 3 ECTS: 4**

Speech problems in patients with cleft lip and orthodontical problems; embryology, methods of assessing patients before and after surgery and speech therapy initiatives; team approach in evaluation; the role of surgery and specialist speech and language therapy; speech assessment and therapy programming; program development and applied research.

#### **DKT310 Swallowing Disorders: Assessment and Therapy (2+4) 4 ECTS: 5**

Diagnosis and assessment processes in infants, children and adults with eating, feeding and swallowing-swallowing disorders; swallowing disorders therapy methods and applications; radiological imaging, bedside assessment, videofluoroscopic assessment, fiberendoscopic evaluation and treatment methods; applied case studies.

#### **DKT312 Professional Ethics (1+0) 1 ECTS: 1**

Science and ethics: definition; distinction between science and profession; philosophy of ethics; human ethics and professional ethics; general ethical principles and applications; medical ethics and principles; speech and language disorders in clinical practice and principles of ethical practices.

#### **DKT394 Clinical Practice II (0+6) 3 ECTS:4**

On site clinical observation of speech and language disorders and therapy applications; observing management of disabilities and related speech-language disorders in state or private rehabilitation centers; communicating with speech and language therapists working in the field; gathering information about different case loads and management approaches in various settings.

## **YEAR FOUR**

### **7<sup>th</sup> SEMESTER (FALL)**

#### **DKT437 Graduation Project I (2+0) 2 ECTS: 3**

Gathering information on a specified topic by surveying the literature using various library sources including internet; classifying background information; determining Project aims and methodology; sharing and discussing gathered information with the course tutor; writing a project proposal for the determined topic.

#### **DKT471 Advanced Clinical Skills and Internship Practise I (0+4) 2 ECTS: 5**

This course is designed to provide students in speech-language therapy, when appropriate, with quality clinical practicum experiences involving diagnostic, treatment, and counseling services to individuals across the lifespan who present with a wide variety of speech-language disabilities. These experiences are offered in a variety of settings including, but not limited to, the university Speech & Language



Disorders Research Center (USKOM), public schools, medical facilities, early intervention programs, residential settings, and nonresidential clinic settings.

**DKT481 Advanced Clinical Practice: Voice Disorders (0+2) 1 ECTS: 3**

To classify the problems of the individuals who have voice disorders. Identification of the concepts of the voice system and voice disorders.

**DKT483 Advanced Clinical Practice: Articulation and Phonological Dis. (0+2) 1 ECTS: 3**

The aim of this course is to make case discussions about delayed language disorders. Assessment and therapy protocols of children with delayed speech and language disorder.

**DKT487 Advanced Clinical Practice: Fluency Disorders (0+2) 1 ECTS: 3**

The aim of this course is to gain students skills for actively evaluating and performing therapy with people who are stuttering. General information about stuttering, assessment procedures, fluency shaping approach, stuttering modification approach, delayed modified feedback, alternative approaches and counseling about stuttering. The chapters of lecture books, articles and the Powerpoint slides that prepared by the lecturer of this course will be used.

**DKT489 Advanced Clinical Practice: Delayed Language and Speech (0+2) 1 ECTS: 3**

The aim of this course is to make case discussions about delayed language disorders. Assessment and therapy protocols of children with delayed speech and language disorder.

**DKT473 Advanced Clinical Practice: Swallowing Disorders (0+2) 1 ECTS: 3**

To gain the ability recognition, evaluate and to perform the treatment of swallowing disorders as a SLP. To recognize anatomical and physiological structures that function in swallowing, to know the causes of swallowing disorders, to plan and evaluate the swallowing disorders in children and adults.

**DKT495 Advanced Clinical Practice: Acquired Language Disorders (0+2) 1 ECTS: 3**

The aim of this course is to make case discussions about acquired language disorders and acquired language disorders approaches.

**YEAR FOUR**

**8<sup>th</sup> SEMESTER (SPRING)**

**DKT438 Graduation Project II (2+2) 3 ECTS: 3**

Gathering information on a specified topic by surveying the literature using various library sources including internet; classifying background information; determining Project aims and methodology;

sharing and discussing gathered information with the course tutor; writing a project proposal for the determined topic.

**DKT486 Advanced Clinical Practice: Motor Speech Disorders (0+2) 1 ECTS: 3**

Being able to organize assessment and intervention process of motor speech disorders, Case studies of motor speech disorder.

**DKT492 Advanced Clinical Practice: Autism (0+2) 1 ECTS: 3**

Assessment of speech and language skills and therapy protocols of children with autism spectrum disorders.

**DKT494 Advanced Clinical Skills and Internship Practise II (0+12) 6 ECTS: 17**

This course is designed to provide students in speech-language therapy, when appropriate, with quality clinical practicum experiences involving diagnostic, treatment, and counseling services to individuals across the lifespan who present with a wide variety of speech-language disabilities. These experiences are offered in a variety of settings including, but not limited to, the university Speech & Language Center Disorders Research Center (USKOM), public schools, medical facilities, early intervention programs, residential settings, and nonresidential clinic settings.

### **AREA ELECTIVE COURSES**

**DKT241 Tests Used in Speech Sound Disorders (2+0) 2 ECTS: 3**

At the end of the course, being able to demonstrate knowledge of the basic principles of speech sound disorders and terminology related to disorders, conduct assessment and intervene after choosing effective intervention approaches. This is a course which gives necessary and essential knowledge about speech sound disorders including description, causes, classification. Additionally information related to assessment and intervention procedures will be given.

**DKT242 Therapy Applications in Speech Sound Disorders (2+0) 2 ECTS: 3**

The aim of the course, is to help students to demonstrate knowledge of the basic principles of speech sound disorders and terminology related to disorders, conduct assessment and intervene after choosing effective intervention approaches.

**DKT209 Child Health and Child Neurology for SLTs (2+0) 2 ECTS: 3**

Problems observed in prenatal, neonatal and postnatal stages; neurological development in infancy and the newborn; prevention, screening, differential diagnosis and clinical evaluation; common childhood diseases and their effects on neurological development; neurological problems in children causing speech and language disorders; medical diagnostics and troubleshooting; clinical approaches with special reference to speech and language disorders.

**DKT219 Pharmacology for Speech and Language Therapists****(2+0) 2 ECTS: 3**

Definition of pharmacology; concepts of pharmacokinetics and farmokodina; ways and principles of drug use; health protection, the importance of preventive health system: primary, secondary and tertiary prevention concepts; factors affecting the achievement of steady state concentration; use of medication in disorders of language, speech, voice, swallowing etc.; neurogenic disorders in individuals with problematic drugs; inhibitory and stimulant medications for the CNS; effects and contraindications of opioid medicines; substance and alcohol abuse and consequences; effects and side effects of various drug groups; discussion about using medication in speech and language clinic.

**DKT204 Computerized Speech Lab****(2+0) 2 ECTS :3**

Speech analysis, voice analysis, speech analysis and measurement of acoustic components; using computerized speech lab for clinical research, diagnostic and therapy purposes; introduce speech and audio analysis hardware and software.

**DKT222 Play and Activity Based Intervention****(2+0) 2 ECTS: 3**

Description of game and activity; the role and importance of game in human; concept of play therapy and theoretical basis; non-directive play therapy, child-centered play therapy, cognitive behavioral play therapy; using play therapy and games in the speech and language therapy clinic; games and play activities from a developmental perspective; building a relationship with the child, observation, reflection, creativity; games and activity-based intervention practices.

**DKT224 Individuals with Special Needs****(2+0) 2 ECTS: 3**

Special needs: related definitions and terminology; major special needs groups: mentally deficient individuals, pervasive developmental disorder, individuals with hearing loss, visually impaired individuals, language and speech disorders, the gifted and the talented; individuals with learning disabilities; emotional-behavioral problems; educational initiatives; special education; inclusion and special education support services; preschool early childhood and special education; special education provisions in Turkey; role of the social state; public policies for persons with disabilities.

**DKT344 Music Therapy Approaches in SLT****(2+0) 2 ECTS: 3**

Using musical techniques developed specifically for speech pathology in the evaluation and therapy of individuals who have language and speech disorders. Definitions, content, evaluation and therapy of music and therapy in language and speech disorders.

**DKT 226 Non-Verbal Communication and Sign Systems****(2+0) 2 ECTS: 3**

Comparing verbal communication and non-verbal communication; paralinguistics, paralinguistic aspects of sign languages; nonverbal communication systems; communication between animals, animal communication; sign and sign language systems; sign languages used in the world; general information about using Turkish Sign Language (TİD).

**DKT228 Child Psychology and Behaviour Disorders****(2+0) 2 ECTS: 3**

Concept of mental health; various theories regarding the concept of mental health; psychological maturity; children's mental health and mental development phases; definition and causes of mental disorders; symptoms of mental disorders in general; defense mechanisms; family mental health; adjustment problems in children: adaptation problems; childhood childhood neurosis and psychosis.

**DKT230 Assessment and Evaluation Techniques of Individuals****(2+0) 2 ECTS: 3**

Knowing the self and knowing others: objectives, importance, function, and principles of information collection; observation and classification techniques: assessment of achievement, ability, personality, interest and attitude through inventories; observational techniques and principles: interviews, problem solving; basic concepts in human relations: empathy, sincerity, transparency, respect and unconditional acceptance; listening and comprehension techniques.

**DKT309 First Aid for Speech and Language Therapists****(2+0) 2 ECTS: 3**

Social importance of first aid; aims of first aid; drug-free applications of first aid; accidents, emergency situations; life rescue; first aid applications.

**DKT321 Speech Therapy and Rehabilitation of Hearing Impaired Individual****(2+0) 2 ECTS: 3**

Speech therapy methods and techniques with hearing impaired cases; developing auditory discrimination skills therapy techniques; articulation therapy skills and techniques; techniques for the improvement of speech reading skills; therapy techniques for the improvement of prosodic features and functional aspects in the speech of hearing impaired individuals.

**DKT323 SLT with Mentally and Multiply Disabled Individuals****(2+0) 2 ECTS: 3**

Language acquisition and linguistic features of children with mental and multiple disabilities; development of language and cognition; karyotype and behavioral differences; down syndrome, williams syndrome, hydrocephalus; theoretical perspectives on language acquisition; assessment methods and differential diagnosis; therapy in children with mental and multiple disabilities; case studies and applied studies.

**DKT325 Basic Orthodontics and Prosthesis****(2+0) 2 ECTS: 3**

Growth during orthodontic development; development phases; basic concepts; orthodontic initiatives for cleft palate cases; orthodontic diagnosis and assessment; types of prostheses; dentition; team approach in intervention; orthodontic approach in early infancy; orthodontic problems in children with craniofacial anomalies and their management; apparatus for speech problems and methods of application; family education.

**DKT327 Alternative and Augmentative Communication****(2+0) 2 ECTS: 3**

Use of alternative and augmentative methods in human communication disorders: signs and other symbol systems; available range of technology and the target population; introducing available hardware and software for the speech therapy clinic.

**DKT329 Evidence Based Applications in SLT****(2+0) 2 ECTS: 3**

Evidence-based practice: definition and classification; relationship between research methodology and practice; cooperation between researchers and practitioners; characteristics of the research design: systematic and non-systematic studies; randomized controlled patterns; quasi-experimental designs; single subject designs etc.; subject selection, data collection techniques; reading and discussing evidence-based practice research articles; metaanalysis and interpretation of research articles using meta analysis.

**DKT331 Basic Imaging and Analysis Methods in SLT****(2+0) 2 ECTS: 3**

Evaluation of speech and language disorders and the use of computerized speech therapy technology like CSL, nasometer, videofluoroscopy, nasoendoscopy, ultrasonography, videostroboscopy; introduction to monitoring and analysis methods; selection of technology and methods for research and of speech disorders; collaboration with other disciplines for the purpose; case records archiving; analysis of the data collected.

**DKT333 Electrophysiological and Electrotherapy Techniques in SLT****(2+0) 2 ECTS: 3**

Computerized technology in speech and language disorders clinic; CSL, nasometer, videofluoroscopy, nasoendoscopy, ultrasonography, videostroboscopy etc.; use of imaging and analysis methods; choosing appropriate technology; choosing the proper method; advantages and disadvantages of using technology in clinical practice.

**DKT320 Pediatric Eating and Swallowing Disorders****(2+0) 2 ECTS: 3**

Normal pediatric swallowing development, anatomy and physiology; pediatric swallowing problems in medicine; The role of SLT; clinical evaluation and diagnosis methods; team approach; swallowing and eating disorders therapy; behavioral nutrition problems; breast feeding techniques; alternative feeding methods; family education; salivation; saliva therapy; therapy and application methods.

**DKT339 Language and Cognition****(2+0) 2 ECTS: 3**

This course aims to study language processing, hemispheric specialisation, the relationship between language development and the development of other cognitive capacities. Neurological basis of language, lexicon and brain, the relation between memory systems and language.

**DKT322 Specific Learning Disability Dyslexia and Dysgraphia****(2+0) 2 ECTS: 3**

Specific learning disabilities: definitions and concepts, subgroups and features; definition of dyslexia and dysgraphia; the processes and development of language skills; development of reading and writing; developmental and acquired dyslexia and dysgraphia; theories and approaches in dyslexia and dysgraphia; assessment and differential diagnosis of dyslexia and dysgraphia; therapy approaches; improving therapy tools; case studies and applied studies.

**DKT324 Speech and Language Therapy with Autistic Children****(2+0) 2 ECTS: 3**

Linguistic features and language development of children and individuals with autism; language assessment, alternative language assessment methods; behavioral language assessment methods; autism

language therapy; contact initiation; programming, different therapy methods; receptive and expressive language activities; advanced therapy applications.

**DKT326 Introduction to Geriatrics**

**(2+0) 2 ECTS: 3**

Overview of gerontology-geriatrics; the importance of speech and language therapy in geriatrics; therapist's roles and responsibilities; demographic and epidemiological characteristics of aging; biological processes: physical, cognitive, nutritional, psychosocial changes; coping with aging; health education and counseling; psychosocial geriatrics: dependence and independence, maintenance, legal regulations and relevant public agencies, relevant non-governmental organizations; geriatric rehabilitation: rehabilitation principles, medical and social rehabilitation; clinical geriatrics: how do the elderly differ, gastrointestinal and respiratory disorders, cardiovascular diseases; CNS and neuropsychiatric disorders: Alzheimer's, dementia and Parkinson's etc.; musculoskeletal and sensory disorders, oncology issues, poisoning, accidents.

**DKT328 Working with Parents in SLT**

**(2+0) 2 ECTS: 3**

The concept of family; clarifying the concept of disability; the consequences of having a disabled child or a child with speech and language disorder in the family; reactions of the family members to individuals with speech and language disorders; disclosing compliance process models: step model, model of constant sorrow, desperation-meaningfulness-weakness model; adoption of chaos theory to compliance process; psychological dynamics in compliance; effects of cultural structure to compliance; studies about families with disabled children; status of family with disabled children in Turkey; working with families in speech and language therapy clinic and counseling process.

**DKT330 Introduction to Language Disorders in Bilingual and Multilingual Cultures**

**(2+0) 2 ECTS: 3**

Biculturalism and multiculturalism; definition and basic concepts of bilingualism and multilingualism; language acquisition and cognitive development in bilingual and multilingual children; stages of language acquisition; theories of language acquisition; bilingual and multilingual acquisition theories; bilingualism, multilingualism and the brain; causes of language disorders in bilingual and multilingual children; assessment and therapy approaches with bilingual and multilingual children; case studies.

**DKT427 Single-case Research Designs**

**(2+0) 2 ECTS: 3**

Characteristics of single subject research methods; single subject research design in speech and language comparison of single subject research design with other research designs; data collection techniques; graphical data analysis techniques; research models; AB, ABAB, multiple baseline and comparative models, etc.; discussing single subject research articles in speech and language therapy.

**DKT340 Aphasia Therapy Approaches**

**(2+0) 2 ECTS: 3**

The aim of this course is to focus on aphasia and inform students about current aphasia management strategies.

**DKT343 Cognitive Behavioral Therapy for SLTs**

**(2+0) 2 ECTS: 3**

The aim of this course is to inform SLT students about the aim and goals of CBT, and CBT techniques; to create awareness about making use of CBT in speech and language therapy clinic.

**DKT205 Diseases of Ear Nose and Throat and Oro-facial Anomalies****3+0) 3 ECTS: 4**

General information about ENT; sense of hearing; anatomy and physiology of the ear, hearing function; impact of ENT diseases on human communication, language and speech; diseases of the external ear, middle and inner ear, oro-facial anomalies; importance of knowledge about otorhinolaryngology for speech and language therapists; case-study and clinical applications.

**DKT 211 Applied Behaviour Analysis****(2+0) 2 ECTS: 3**

Concept of applied behavior analysis; features and principles; measuring behavior; description and data collection methods of behavior; representation of data, drawing graphs; writing behavioral objectives; description of behavior assessment methods; evaluating and inferring graphs and tables representing behaviours; determining effective reinforcement techniques; planning and implementing behavior modification protocols.

**DKT311 Lang. Dis. among School Children: Assessment and Therapy****(2+2) 3 ECTS: 4**

Early childhood speech and language disorders ; assessment and diagnostic scale; school age assessment of speech and language disorders; different approaches in speech and language therapy with school age children; therapist-based therapy approaches; family-centered approach initiative; student-centered therapy approaches; teamwork in the management of speech and language disorders in educational environments; therapist-student-teacher-parent cooperation.

**DKT303 Fluency Disorders-I****(2+2) 2 ECTS: 3**

Defining fluency and fluency disorders; causes of speech fluency; types of speech fluency disorders; speech fluency problems in early childhood; assessment in childhood and adulthood; stuttering; biological and physiological basis of stuttering; stuttering theories; cluttering; developmental stuttering; acquired stuttering; early stuttering.

**DKT304 Fluency Disorders-II****(3+0) 3 ECTS: 4**

Assessment methods in early and adult stuttering; approaches and techniques in adult stuttering therapy; traditional and contemporary approaches to therapy and use of technology; child and adult stuttering therapy planning, development and implementation evidence based therapy; assessment methods in cluttering; cluttering therapy approaches and techniques..

**UNIVERSITY ELECTIVE COURSES****USD201 Professional English I****(4+0) 4 ECTS: 4**

Improving the ability of students in reading, understanding and translating texts in English in the field of speech and language therapy Academic knowledge, definitions, and concepts in English related with speech and language disorders, anatomy and physiology of speech-language production, and intervention approaches for disorders.

**USD202 Professional English II****(4+0) 4 ECTS: 4**

Improving the ability of students in reading, understanding and translating texts in English in the field of speech and language therapy. Academic knowledge, definitions, and concepts in English related with speech and language disorders, anatomy and physiology of speech-language production, and intervention approaches for disorders.

**USD301 Professional English III****(4+0) 4 ECTS: 4**

Improving the ability of students in reading, understanding and translating texts in English in the field of speech and language therapy. Academic knowledge, definitions, and concepts in English related with speech and language disorders, anatomy and physiology of speech-language production, and intervention approaches for disorders.

**USD302 Professional English IV****(4+0) 4 ECTS: 4**

Improving the ability of students in reading, understanding and translating texts in English in the field of speech and language therapy. Academic knowledge, definitions, and concepts in English related with speech and language disorders, anatomy and physiology of speech-language production, and intervention approaches for disorders.

**USD401 Professional English V****(4+0) 4 ECTS: 4**

Improving the ability of students in reading, understanding and translating texts in English in the field of speech and language therapy. Academic knowledge, definitions, and concepts in English related with speech and language disorders, anatomy and physiology of speech-language production, and intervention approaches for disorders.

**USD402 Professional English V****(4+0) 4 ECTS: 4**

Improving the ability of students in reading, understanding and translating texts in English in the field of speech and language therapy. Academic knowledge, definitions, and concepts in English related with speech and language disorders, anatomy and physiology of speech-language production, and intervention approaches for disorders.



