

## Üsküdar University Institute of Health Sciences

### Speech and Language Disorders Therapy Doctorate Program

#### Course Contents

#### COMPULSOY COURSES

##### **DKT641/642/643/644 Research and Project Development in Speech and Language Therapy I, II, III and IV**

How and under what conditions an idea for research and change should be analyzed from the moment it arises; how the transition from analysis results to the project will be; issues related to how the selected project will be planned and how this planning can be transformed into a viable project; examples of basic and clinical research projects on speech and language disorders; practice practice; planning, implementation, supervision of scientific research and data analysis methods and project development, scientific report, article and thesis writing techniques.

##### **DKT645/646/647/648 Advanced Speech and Language Therapy Clinic, Academic Teaching Skills and Mentoring I, II, III and IV**

Basic concepts related to teaching, learning and teaching principles, the importance and benefits of planned work in teaching, planning of teaching, goals, behavior and acquisition concepts, learning and teaching strategies, teaching methods and techniques, their relationship with practice, teaching tools and materials, the quality of teaching service. the duties and responsibilities of the instructor in increasing; Gaining skills in areas such as preparing lesson plans and materials, preparing exam questions, evaluating exams, and classroom control by giving lectures to language and speech therapy undergraduate students on the subjects included in the program under the supervision of a faculty member. Developing mentoring skills to apply the clinical skills of doctoral students to undergraduate students through the practices they will perform in the language and speech therapy clinic.

##### **DKT630 Seminar**

Within the scope of this course, field-oriented scientific activities will be carried out, such as making a presentation by preparing a presentation on a given topic in the field of speech and language therapy, introducing and discussing a scientific article, organizing and holding a panel on a topic.

##### **DKT650 Proficiency Exam Preparation and Thesis Proposal**

Reinforcement of basic knowledge in the field of speech and language therapy in preparation for the proficiency exam under the supervision of a counselor; determining the thesis topic; Preparation and submission of thesis proposal.

##### **DKT 690.1/ 690.2/ 690.3/ 690.4 Thesis Study I, II, III and IV**

Conducting and reporting the necessary research on the candidate's thesis topic for the Doctoral Thesis accepted by the Institute of Health Sciences in the field of Language and Speech Therapy.

## **ELECTIVE COURSES**

### **DKT651 Advanced Studies in Clinical Voice Disorders (6 ECTS)**

Following, examining and criticizing the articles published in the field of voice disorders, adapting and applying the research findings to the voice clinic; instrumental and non-instrumental evaluation terms and methods used in voice disorders; sound therapy methods; choosing an individual voice therapy method; creating and implementing an individualized voice therapy plan; reporting the evaluation and therapy process specific to the voice therapy clinic; planning and conducting research in the field of voice disorders.

### **DKT652 Advanced Studies in Resonance Disorders (6 ECTS)**

Following, examining and criticizing the articles published in the field of resonance disorders, adapting and applying research findings to the resonance clinic; instrumental and non-instrumental evaluation terms and methods used in resonance disorders; resonance therapy methods; choosing an individualized resonance therapy method; creating and implementing an individualized resonance therapy plan; reporting the evaluation and therapy process specific to the resonance therapy clinic; planning and conducting research in the field of resonance disorders.

### **DKT653 Advanced Studies and Imaging Techniques in Swallowing Disorders (6 ECTS)**

Following, examining and criticizing the articles published in the field of swallowing disorders, adapting and applying research findings to the swallowing clinic; instrumental and non-instrumental evaluation terms and methods used in swallowing disorders; swallowing therapy methods; choosing an individualized swallowing therapy method; creating and implementing an individualized swallowing therapy plan; Evaluation and reporting of the therapy process specific to the swallowing therapy clinic; planning and conducting research in the field of swallowing disorders.

### **DKT654 Cognitive Neuroscience and Neurolinguistics Research (6 ECTS)**

Following, examining and criticizing the articles published in the field of Cognitive Neuroscience and Neurolinguistics, adapting and applying research findings to the language and speech therapy clinic; Instrumental and non-instrumental assessment terms and methods used in Cognitive Neuroscience and Neurolinguistics.

### **DKT655 Advanced Studies in Neurogenic Language, Cognitive-Communication and Speech Disorders (6 ECTS)**

Following, examining and criticizing the articles published in the field of Neurogenic Language, Cognitive-Communication and Speech Disorders, adapting and applying the research findings to the Neurogenic Language, Cognitive-Communication and Speech Disorders clinic; Instrumental and non-instrumental assessment terms and methods used in Neurogenic Language, Cognitive-Communication and Speech disorders; Therapy methods for Neurogenic Language, Cognitive-Communication and Speech Disorders; choosing the therapy method for the individual; creating and implementing an individualized therapy plan; Reporting the evaluation and therapy process specific to Neurogenic Language, Cognitive-Communication and Speech Disorders clinic; Planning and conducting research in the field of Neurogenic Language, Cognitive-Communication and Speech Disorders.

### **DKT656 Advanced Studies in Fluency Disorders (6 ECTS)**

Following, examining and criticizing the articles published in the field of fluency disorders, adapting and applying the research findings to the fluency clinic; instrumental and non-instrumental assessment terms and methods used in fluency disorders; fluency therapy methods; choosing an individualized fluency therapy method; creating and implementing an individualized fluency therapy plan; evaluation and reporting of the therapy process specific to the fluency therapy clinic; planning and conducting research in the field of fluency disorders.

### **DKT657 Management of Head and Neck Cancer Cases: Advanced Multidisciplinary Studies (6 ECTS)**

Speech, voice and swallowing disorders due to head and neck cancers; case-based assessment tools; establishing an appropriate rehabilitation program; following, examining and criticizing the articles published in the field of speech, voice and swallowing disorders due to head and neck cancers, adapting and applying research findings to the clinic; instrumental and non-instrumental evaluation terms and methods used in speech, voice and swallowing disorders due to head and neck cancers; Multidisciplinary approach in the management of speech, voice and swallowing disorders due to head and neck cancers.

### **DKT658 Advanced Studies in Childhood Language and Speech Disorders (6 ECTS)**

Following, examining and criticizing the articles published in the field of childhood language speech disorders, adapting and applying the research findings to the childhood speech language clinic; instrumental and non-instrumental assessment terms and methods used in childhood language and speech disorders; childhood language speech therapy methods; choosing an individualized childhood language speech therapy method; creating and implementing an individualized childhood speech language therapy plan; reporting the evaluation and therapy process specific to the childhood speech therapy clinic; planning and conducting research in the field of childhood language and speech disorders.

### **DKT659 Speech and Language Therapy in Hearing Disorders: Advanced Multidisciplinary Studies (6 ECTS)**

Following, examining and criticizing the articles published in the field of hearing disorders, adapting and applying the research findings to the speech and language therapy clinic specific to hearing disorders; instrumental and non-instrumental evaluation terms and methods used in hearing disorders; speech and language therapy methods in hearing disorders; choosing an individual therapy method; creating and implementing an individualized therapy plan; reporting specific evaluation, interdisciplinary management and therapy process for the hearing therapy clinic; planning and conducting research in the field of hearing disorders in terms of speech and language therapy.

### **DKT661 Current Issues in Speech and Language Therapy (6 ECTS)**

Identifying, examining and criticizing current issues by following the articles published in the field of speech and language therapy; adaptation and application of research findings to the speech and language therapy clinic.

### **DKT662 Brain Research in Speech and Language Disorders (6 ECTS)**

Evaluation and comparison of brain damaged patient data according to therapy models and patterns of therapy methods; interpretation of brain injury data according to localization and fMRI studies; interpretation of brain-damaged patient data within the framework of neuropsychology / cognitive neuropsychology; Evaluation of research articles according to cognitive neuroscience and neuropsychology knowledge.

### **DKT663 Phonetics and Phoniatriy Laboratory (6 ECTS)**

Phonetics and phoniatrics: terms and concepts; speech organs and their functions; characteristics of speech sounds; famous voices; consonant sounds; minimal and maximal separations; distinctive features; theories explaining the formation of speech sounds; phonation and sound quality; prosodic features; international phonetic spelling; sound repertoire of the Turkish language; phonetic and phoniatriy analysis techniques; acoustic and aerodynamic measurement tools and applications; Evaluation of research articles according to phonetic and phoniatriy laboratory practices.

### **DKT664 Intervention in Cleft Lip and Palate: Surgical, Orthodontic and Therapeutic Methods (6 ECTS)**

Speech, voice and swallowing disorders due to cleft lip and palate; case-based assessment tools; establishing an appropriate rehabilitation program; following, examining and criticizing the articles published in the field of speech, voice and swallowing disorders due to cleft lip and palate, adapting and applying research findings to the clinic; instrumental and non-instrumental evaluation terms and methods used in speech, voice and swallowing disorders due to cleft lip and palate; Multidisciplinary approach in the management of speech, voice and swallowing disorders due to cleft lip and palate.

### **DKT665 Developmental Neurology and Child Diseases Affecting Communication (6 ECTS)**

Identifying, examining and criticizing current issues by following the articles published in the context of Developmental Neurology and Pediatrics Affecting Communication; adaptation and application of research findings to the speech and language therapy clinic.

### **DKT666 Alternative and Supportive Communication Systems (6 ECTS)**

Definition of Alternative and Supportive Communication Systems (ADIS), types of technology used; Alternative and supportive tools and methods used to meet the communication needs of individuals with language and speech problems: sign and other symbol systems; technology and the content of these methods, the presentation, scope and features of the device and hardware, from the smallest hand-made tool to computer-assisted speech generating tools; practice in the language and speech clinic; Evaluation methods in ADIS; Following, examining and criticizing the articles published in the field of ADIS, adapting and applying the research findings to the clinic; Multidisciplinary approach in ADIS applications.

### **DKT667 Interdisciplinary Cooperation in the Evaluation and Management of Communication-Language-Speech, Voice and Swallowing Disorders (6 ECTS)**

Experts from other disciplines related to language and speech disorders (ENT, Neurology, Neurosurgery, Psychiatry, Psychology, Plastic Surgery, Orthodontics, Pediatrics, Physical Therapy and Rehabilitation, Geriatrics, Physiotherapy, Audiology etc.) introduce their own fields; Reflecting the problems related to communication-language-speech, voice and swallowing disorders and the expectations from the speech and language therapist and the issues to be observed in interdisciplinary cooperation.

### **DKT668 Scientific Publication Evaluation and Writing Processes (6 ECTS)**

Scientific thinking practice, scientific language and writing criteria accepted as a general and common language. Principles used in productions that require international collaborative writing and expression techniques such as thesis, report, article. Basic knowledge and skills with scientific publication in national and international peer-reviewed journals. Evaluation processes of scientific publications, acceptance and rejection criteria. Scientific text generation application.

### **DKT669 Advanced Research Methods in Health Sciences (6 ECTS)**

Research society and sample selection; Defining research problems and establishing hypotheses. Power analysis and sample volume calculations and sampling methods. Data summarization and presentation techniques (Indicative statistics, Tables, Graphs); Research plan; Preparation of the project and its protocol; Preparation of data collection and storage forms. Collection of research data; computer login; Performing control procedures; Calculation of indicative statistics; Normality checks. Z and t tests. One-way and two-way analysis of variance and multiple comparison tests and computer applications. Chi-square conformity and independence tests, Sign test, KS single and double sample tests, McNemar Test etc. Nonparametric tests (Mann Whitney U, Wilcoxon T, Kruskal Wallis, Friedman etc. tests). Regression and correlation analysis. Reliability and question analysis. Factor analysis (Explanatory and confirmatory FA, factor rotation methods). Some multivariate statistical methods. Scientific writing rules. Research ethics and general ethical rules