Course Syllabus

Code - Course Title	**ZEÖ536 - Technology Supported Instruction in Special Education**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	DOÇ. DR. SUNAGÜL SANİ BOZKURT

Mode of Delivery	The mode of delivery of this course is face to face.
Place of Delivery	On Campus
Used Educational Platforms	Face-to-face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	No.
Recommended Resources	[15:28, 12.10.2026] Sunagül SANİ BOZKURT: Kotsi, S., Handrinou, S., Iatraki, G., & Soulis, S.-G. (2025). A review of artificial intelligence interventions for students with autism spectrum disorder. Disabilities, 5(1), 7.[15:28, 12.10.2026] Sunagül SANİ BOZKURT: Koegel, L. K., Ponder, E., Bruzzese, T., Wang, M., Semnani, S. J., Chi, N., ... & Lam, M. S. (2025). Using artificial intelligence to improve empathetic statements in autistic adolescents and adults: A randomized clinical trial. Journal of autism and developmental disorders, 1-17.[15:28, 12.10.2026] Sunagül SANİ BOZKURT: Akemoğlu, Y., Roberts, E. B., & Xiong, J. (2026). A systematic review and quality appraisal of AI-augmented intervention studies for autistic individuals. Autism, 30(9), 2191-2207.
Work Placement	There is no work placement.
Aims of the Course	The aim of this course is to examine the theoretical and scientific foundations of technology-supported instructional approaches in special education at an advanced level; to critically evaluate current technologies, instructional models, and research findings used in the education of individuals with different disability groups; and to develop scientific awareness regarding the use of technology in special education.

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Characteristics of individuals with special needs	
Week - 2		Individual differences in instruction	
Week - 3		Universal design for instruction	
Week - 4		Universal design principles for instruction	
Week - 5		Technology supported instructional environments	
Week - 6		Technology related concepts	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 7		Mid-term exam	
Week - 8		Multimedia, dual coding, cognitive load and cognitive load principles, interaction, visual components	
Week - 9		The use of assistive technologies in special education: The definition, and classification of assistive technologies	
Week - 10		The use of assistive technologies in special education: The definition, and classification of assistive technologies	
Week - 11		Low-Tech assistive technologies	
Week - 12		Mid-Tech assistive technologies	
Week - 13		High-Tech assistive technologies	
Week - 14		Benefits and limitations of assistive technologies	

Learning Outcomes

#	Learning Outcome
1	Explain the characteristics of individuals with special needs.
2	Explain the individual differences in instruction.
3	Describe the universal design for instruction.
4	Discuss the universal design principles for instruction.
5	Describe technology supported instructional environments.
6	Explain technology related concepts.
7	Explain multimedia, dual coding, cognitive load and cognitive load principles, interaction, visual components.
8	Discuss the use of assistive technologies in special education, the definition, and classification of assistive technologies.
9	Explain the Low-Tech assistive technologies.
10	Explain Mid-Tech assistive technologies.
11	Explain High-Tech assistive technologies.
12	Discuss the benefits and limitations of assistive technologies.

Sustainable Development Goals

✓ Quality Education

Course Theme

✓ Educational Sciences and Educational Technologies

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	3.00	14	42
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	3.00	14	42
Ödevler	10.00	2	20
Proje - Rapor - Sunum Hazırlama	20.00	1	20
Ara Sınav Hazırlığı (sınav süresi dahil)	10.00	1	10
Final Sınavı Hazırlığı (sınav süresi dahil)	10.00	1	10
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0.00	0	0
Staj Uygulaması	0.00	0	0
		Calculated ECTS	**6.0**

Assessment Method and Passing Requirements

✓ Open-Ended Test ✓ Self Assessment ✓ Homework ✓ Presentation