

Study program: Special education and rehabilitation
Type and level of studies: Doctoral Academic Studies
Title of the subject: Application of assistive technology in rehabilitation of persons with intellectual disability
Lecturer: Milanović-Dobrota, Z., Biljana; Maćešić-Petrović, S., Dragana
Course status: Elective course
ECTS: 20
Prerequisites: No prerequisites
Aim: Aim of the course is to introduce doctoral students with assistive technology which can be used in the rehabilitation of persons with intellectual disability (ID)
Outcomes: Mastering the curriculum, students are familiar with assistive technology that can be used by persons with ID in education, independently performing daily activities and work tasks.
Contents: Lectures Assistive technology (definition, goal, equipment); Planning and implementation of assistive technology; Assistive Technology Services; Quality indicators for selection of assistive technology; Consideration/selection of assistive technology; Assistive Technology outcomes; Assistive technology for persons with ID; Learning to read using computer technology; Audio-books for students with ID; Adoption of contents and generalization of concepts at students with ID using computer instructions; Internet access for children with ID; Self management of assistive technologies to students with ID to start and perform daily tasks; Opportunities for persons with ID to use computer interface; Problems of persons with ID to handle virtual environment device: systematic evaluation; Application of assistive technology in workplace accommodation for persons with ID. Practical exercises – Study research work Practical application of lectures contents in designing model application of assistive technology.
Literature: 1. Alper, S., & Raharinirina, S. (2006): Assistive Technology for Individuals with Disabilities: A Review and Synthesis of the Literature. <i>Journal of Special Education Technology</i> , 21(2), 47-64. 2. Mechling, L.C. (2007): Assistive technology as a self-management tool for prompting students with intellectual disabilities to initiate and complete daily tasks: a literature review. <i>Education and Training in Developmental Disabilities</i> , 2007, 42(3), 252–269. 3. Wong, A.W.K., Chan, C.C.H., Li-Tsang, C.W.P., & Lam, C.S. (2009): Competence of people with intellectual disabilities on using human–computer interface. <i>Research in Developmental Disabilities</i> 30 (2009) 107–123. 4. Radić Šestić, M., Milanović Dobrota, B., Radovanović, V., Karić, J. (2012). Application of assistive technology in rehabilitation of persons with cognitive disabilities. <i>HealthMED Journal</i> , 6, 11, 3826- 3834. 5. Radić Šestić, M., Milanović Dobrota, B. (2012). Primena asistivne tehnologije u inkluzivnom obrazovanju osoba sa intelektualnom ometenošću i oštećenjem sluha. U M. Gligorović i S. Kaljača (Ur.) <i>Kognitivne i adaptivne sposobnosti dece sa lakom intelektualnom ometenošću</i> , 195-204. Beograd: Univerzitet u Beogradu - Fakultet za specijalnu edukaciju i rehabilitaciju ISBN 978-86-6203-027-6 6. Chadwick, D.D., Wesson, C. & Fullwood, C. (2013). Internet access by people with intellectual disabilities: Inequalities and opportunities, <i>Future Internet</i> , 5, 376-397. doi:10.3390/fi5030376 7. Nicholas, D.B., Attridge, M. & Zwaigenbaum, L. (2015). Vocational support approaches in autism spectrum disorder: a synthesis review of the literature. <i>Autism</i> 19: 235–245. 8. Raja, D. S. (2016). <i>Bridging the Disability Divide Through Digital Technologies</i> . World Bank Group. 9. Maćešić-Petrović, D., Kovačević, J., Japundža-Milisavljević, M. (2010). Computer Treatment, Cognition And Behavior Vs. Intellectual Disability. <i>International Computer And Instructional Technologies Symposium Proceedings</i> , ISBN: 978-605-61434-2-7, Konya.PP.739-742. 10. Maćešić-Petrović, D., Kovačević, J., Đurić-Zdravković, A., Japundža-Milisavljević, M. (2010). The Role Of Computers In The Treatment Of The Children With Intellectual Disability. <i>International Computer And Instructional Technologies Symposium Proceedings</i> , ISBN: 978-605-61434-2-7, Konya. pp. 743-746. 11. Aleksandra Đurić-Zdravković, Dragana Maćešić-Petrović, Mirjana Japundža-Milisavljević. (2010). Računar u edukaciji dece sa intelektualnom ometenošću. <i>Beogradska defektološka škola</i> . Vol.16 (3), Br.48. Beograd: DDS, FASPER 531-541. ISSN 0354-8759 12. Maćešić-Petrović, D., Đurić-Zdravković, A. (2009): Računari i deca sa smetnjama intelektualnog razvoja, <i>Beogradska defektološka škola</i> , 1, 173-178., ISSN 0354-8759, 13. Maćešić-Petrović, D., Japundža-Milisavljević, M. (2010). Računar u edukaciji dece sa intelektualnom ometenošću. <i>Beogradska defektološka škola</i> . Vol.16 (3), Br.48, 531-541. ISSN 0354-8759

14. Maćešić-Petrović D., Japundža-Milisavljević M. (2008): Modeli pristupne tehnologije i mogućnosti inkluzije intelektualno ometene dece, U susret inkluziji – dileme u teoriji i praksi, FASPER i CIDD, Beograd, 243-251. ISSN 978-86-80113-71-5			
Number of active classes per week			
Lectures: 4	Research work: 10		
Teaching methods: Lectures, practical exercises, interactive teaching, group discussion			
Evaluation of knowledge (maximum score 100)			
Pre obligations	Points	Final exam	Points
Research project	20	Written exam	
Seminars	25	Oral exam	55