The Hebrew University of Jerusalem

Syllabus

ASSISTIVE TECHNOLOGY IN OCCUPATIONAL THERAPY - 99153

Last update 09-08-2023

HU Credits: 1.5

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Occupational Therapy

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Dr. Lori Rosenberg

Coordinator Email: laura.rosenberg@mail.huji.ac.il

Coordinator Office Hours: Tueday 8:00-12:30

Teaching Staff:
  Dr. Laura Rosenberg,
Ms. Osnat Arbel,
Dr. lena Lipskaya-Velikovsky

Course/Module description:
  In this course the students will acquire understanding about a broad array of assistive technology including computer and tablet adaptations,driving, seating and mobility.

Course/Module aims:
  Provide theoretical and practical knowledge in the field of assistive technology and adaptations for clients' needs with a broad array of populations.

Learning outcomes - On successful completion of this module, students should be able to:
  - demonstrate the complexities of selecting assistive technology
- understand the principles of adaptations of computer hard and software
- know the options of modifying computers, tablets and cellular phones for different populations.
- analyse seating and suggest solutions
- assess aspects of manual and power wheelchairs in terms of seating and daily function
-be cable of performing basic wheelchair skills and teach them
-understand the factors that can cause pressure ulcers and choose appropriate cushion for a person's needs
-understand the complexities of adapting driving.

Attendance requirements(%):
  100%

Teaching arrangement and method of instruction: Participation in lectures and discussions
Case studies
Visit Alyn hospital
hands-on power and manual mobility experience
Application of theoretic knowledge through case studies in small groups
Readings

<u>Course/Module Content:</u>
  - Introduction to assistive technology, matching the technology to the user, switches and Assisted Augmentated Communication.
- Computer and tablet input methods: adapting keyboards, switches and computer devices.
- Computer and tablet software for occupational therapy including assistive programs,analyzing programs demands, using presentations and more
- adapting seating to the user's needs
- Mobility and manual wheelchair adaptations
-manual wheelchair skills
- pressure ulcers and appropriate cushions
-powered mobility:the importance, the parts of a powered wheelchair on adapting the chair.
-adapted driving
-assistive technology in the mental health population

<u>Required Reading:</u>

Devlin, H., Nolan, C., & Turner, N. (2019). Assistive technology and
  schizophrenia. Irish Journal of Occupational Therapy, 47(2), 124-
  .136

Ledger, L., Worsley, P., Hope, J., & Schoonhoven, L. (2020). Patient
  involvement in pressure ulcer prevention and adherence to
  prevention strategies: An integrative review. International
  journal of nursing studies, 101, 103449.

Pellichero, A., Routhier, F., Sorita, É., Archambault, P. S.,
  Demers, L., & Best, K. L. (2023). Consensus for a power wheelchair
  training approach for people with cognitive impairments.
  Disability and Rehabilitation: Assistive Technology, 18(1), 109-
  .117

 <u>Additional Reading Material:</u>
  See syllabus in the course website

 <u>Grading Scheme:</u>
  Written / Oral / Practical Exam 80 %
  Submission assignments during the semester: Exercises / Essays / Audits / Reports / Forum / Simulation / others 15 %
  Clinical Work / Lab Work / Practical Work / Workshops 5 %

<u>*Additional information:*</u>
   Students are required to attend the day at Alyn hospital