

Course Syllabus and Lesson Plan

RSRS 534 Assistive Technology Assessment and Services 3 (2-2-5)

Academic Year 2018

Course Title: Assistive Technology Assessment and Services

Course Code: RSRS 534

Duration: first semester

Pre-Requisite: No

Course Homepage: http://www.rs.mahidol.ac.th/academic/master_degree-rehabilitation.html

Course Description:

Concepts, theories, and practices for needs assessment; evaluation process efficiencies; and services in assistive technology; writing operation manuals, writing recommendations, and reports; funding resources for assistive technology service, and assistive technology service in organizations

แนวคิด ทฤษฎี และปฏิบัติ การประเมินความต้องการ ประเมินกระบวนการและประสิทธิภาพการให้บริการเทคโนโลยีสิ่งอำนวยความสะดวก การจัดทำคู่มือการใช้งานการเขียนข้อเสนอแนะและรายงานหน่วยงานที่ให้บริการเทคโนโลยีสิ่งอำนวยความสะดวก การจัดบริการเทคโนโลยีสิ่งอำนวยความสะดวกในหน่วยงาน

Course Objectives: At the end of this course, the students will be able to

CLO1 Demonstrate the knowledge on theory and practice in assistive technology service delivery.

CLO2 Assess the need for assistive technology devices and services

CLO3 Evaluate the effectiveness of service delivery system

CLO4 Write assistive technology operation manuals

CLO5 Integrate knowledge on assistive technology service delivery process into practice

Course Outlines: See schedule

Teaching Methods: Lecture, Assignment and Discussion, case-study, practice

Week	Topic	Teaching Activities / Media	Lecturer
1 12/1	<ul style="list-style-type: none"> - Introductions & Syllabus overview /classroom activities/ grading policy/ - Mean and evaluation Assistive technology - Assignments for Syllabus 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Dr. Paranee Visuttipun
2 19/1	<ul style="list-style-type: none"> - writing operation manuals - funding resources for assistive technology service - Evaluating the efficiency of service, technology, facilities and services. 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Dr. Paranee Visuttipun
3 26/1	<ul style="list-style-type: none"> - Evaluate requirements for Assistive technology - Process Evaluate - Evaluation criteria for Assistive technology; HAAT Model (Human & Activity) 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Assistant Professor. Warin Kriyakiarana
4 2/2	<ul style="list-style-type: none"> - Evaluate requirements for Assistive technology - Process Evaluate - Assessment of the needs of person with disabilities - Evaluation criteria for Assistive technology; HAAT Model (Assistive Technology) 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Assistant Professor. Warin Kriyakiarana
5 9/2	<ul style="list-style-type: none"> - Evaluate requirements for Assistive technology - Process Evaluate - Assessment of the needs of person with disabilities - Evaluation criteria for Assistive technology; HAAT Model (The Context) 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Assistant Professor. Warin Kriyakiarana
6 16/2	<ul style="list-style-type: none"> Evaluate requirements for Assistive technology - Process Evaluate - Evaluation criteria for Assistive technology; WATI Framework 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Dr. Paranee Visuttipun

Week	Topic	Teaching Activities / Media	Lecturer
7 23/2	<ul style="list-style-type: none"> - Process evaluation and service efficiency. Facility technology: The case of people with intellectual disabilities. 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Assistant Professor. Warin Krityakiarana
8 2/3	<ul style="list-style-type: none"> - Process evaluation and service efficiency. Facility technology: the case of person with mobility impairments - The tool used to evaluate the technological for person with mobility impairments 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Assistant Professor. Warin Krityakiarana
9 9/3	<ul style="list-style-type: none"> - Process evaluation and service efficiency. Facility technology: the case of person with visually impaired -Tool evacuation Assistive technology for person with visually impaired 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Assoc. Prof. Dr. Supa Khongsangchi
10 19/3	<ul style="list-style-type: none"> Process evaluation and service efficiency. Facility technology: the case of person with hearing impaired Tool evacuation Assistive technology for person with hearing impaired 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Assoc. Prof. Sumalee Dechongkit
11 23/3	<ul style="list-style-type: none"> Case study Time 1 - Practices Home Care: Assessment of the needs of person with disabilities - Evaluation criteria for Assistive technology 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Dr. Paranee Visuttipun
12 30/3	<ul style="list-style-type: none"> Case study Time 2 - Practices Home Care: Assessment of the needs of person with disabilities - Evaluation criteria for Assistive technology 	<ul style="list-style-type: none"> -Lecture -Discussion -Practice -PPT. 	Dr. Paranee Visuttipun

Week	Topic	Teaching Activities / Media	Lecturer
13 6/4	Case study Time 3 - Practices Home Care: Assessment of the needs of person with disabilities - Evaluation criteria for Assistive technology	-Lecture -Discussion -Practice -PPT.	Dr. Paranee Visuttipun
14 19/4	Case study Time 4 - Practices Home Care: Assessment of the needs of person with disabilities - Evaluation criteria for Assistive technology	-Lecture -Discussion -Practice -PPT.	Dr. Paranee Visuttipun
15 20/4	Case study Time 5 - Practices Home Care: Assessment of the needs of person with disabilities - Evaluation criteria for Assistive technology	-Lecture -Discussion -Practice -PPT.	Dr. Paranee Visuttipun
16 27/4	Present case study by student	-Lecture -Discussion -Practice -PPT.	Dr. Paranee Visuttipun
17 28/4	Take Home		Dr. Paranee Visuttipun
	Total	30	

Course Objectives	Evaluations	Marks	
CLO1 Demonstrate the knowledge on theory and practice in assistive technology service delivery	Answering Questions / Comments	3	18
	Personal Study Report (DOC)	5	
	Presentation	5	
CLO2 : Compare, analyze, and criticize assessment tools; modify/design appropriate assessment tools for people with disability in Thailand's context.	Midterm /Final Examination	5	17
	Answering Questions / Comments	2	
	Personal Study Report (DOC)	5	
	Presentation	5	
CLO3 : Identify funding resources, explain funding process and write recommendations and reports for funding of assistive technology device and service	Midterm /Final Examination	5	15
	Personal Study Report	5	
	Presentation	5	
CLO4 : Write assistive technology operation manuals	The operation manuals	15	15
CLO5 : Integrate knowledge on assistive technology service delivery process into practice	Midterm examination	5	30
	Final Examination	10	
	Practical examination	15	
Total			100

Evaluation of Student Achievement Grading system:

A = 80-100 Marks B+ = 75-79 Marks B = 70-74 Marks C+ = 65-69 Marks
C = 60-64 Marks D+ = 55-59 Marks D = 50-54 Marks F < 50 Marks

Course Evaluation: Questionnaire about contents, teaching processes, examinations and instructor performance.

Required Textbook

- Bryant, D.P.,& Bryant B.R. (2012). Assistive Technology for people with Disabilities.
○ 2nd Ed. Boston: Pearson.

- Cook, A.M.& Polgar, J. M. (2015). *Assistive Technologies: Principles and Practice*. New York: Mosby Elsevier.
- Cook, Albert M., Polgar, Jan M. and Hussey, Susan M. (2008). *Cook and Hussey's Assistive Technologies: Principles and Practice*, 3ed. Missouri, mosby.

Other References

- Lazzaro, Joseph J. 2001. **Adaptive Technologies for Learning & Work Environments 2nd Ed.** Chicago,
- Langton, A.J. (1998). **Guide to using Assistive Technology in Assessment and Vocational Evaluation**. Center for Rehabilitation Technology Services SC Vocational Rehabilitation Department.
- Robin, D.B. (2008). **Accommodations and Assistive Technology Accommodating Students with Disabilities in Higher Education**.
- The WATI Assessment Package. [online 2014 available from: <http://www.wati.org/content/supports/free/pdf/WATI%20Assessment.pdf>]
- Lawrence A. Beard , Laura Bowden Carpenter and Linda B. Johnston. **Assistive Technology: Access for All Students 2nd Ed.** Pearson Education, New Jersey.2001.
- Oliver Wendt, Raymond W. Quist and Lyle L. Lloyd. **Assistive Technology: Principles and Applications for Communication Disorder and Special Education**. Emerald Group, UK.
- สำนักงานส่งเสริมและพัฒนาคุณภาพชีวิตคนพิการแห่งชาติ. ตัวอย่างที่ดีในการจัดสิ่งอำนวยความสะดวกขั้นพื้นฐานสำหรับคนพิการและคนทุพพลภาพ. (๒๕๕๕). กรุงเทพฯ. โรงพิมพ์เทพเพ็ญวานิสย์.
- กระทรวงการพัฒนาสังคมและความมั่นคงของมนุษย์. (๒๕๕๖). คู่มือรายการอุปกรณ์ สิ่งอำนวยความสะดวก หรือบริการที่สอดคล้องกับความต้องการพิเศษของคนพิการ พ.ศ. ๒๕๕๕. กรุงเทพฯ. โรงพิมพ์เทพเพ็ญวานิสย์.

Course Coordinators

Lect. Dr. Paranee Visuttiapun

Department of Rehabilitation for Persons with Disabilities, Ratchasuda College, Mahidol University

Email: paranee.vis@gmail.com