Module Head: Professor Herman Lau

Session	1	2	3	4	5	6	7	8	Exam
Date	9/5/25 (F)	16/5/25 (F)	3/6/25 (Tue)	4/6/25 (W)	7/6/25 (Sat)		14/6/25 (Sat)		21/6/25 (S)
Time	1830-2130	1830-2130	1830-2130	1830-2130	1000-1300	1400-1700	1000-1300	1400-1700	PM
Venue	OLC SR	YIA605	OLC SR	OLC SR	CYT214		CYT214 CUHKMC RC		Tbc

Contents

Mini-module	Topic	Speaker	Session	Time slot
Neuroplasticity	1. Principles of Neuroplasticity	Ms. Eva CHUN	1	9/5/2025 (Fri)
principles	2. Principles of Gait			
	3. Locomotor Training			
	4. Traditional Physiotherapist Practice in Neuroplasticity Rehabilitation			
Introduction of	Introduction to Robotics for Rehabilitation – End effector based robotic rehabilitation	Ms. Eva CHUN	2	16/5/2025 (Fri)
Robotics technology	Introduction to Robotics for Rehabilitation – Exoskeleton based robotic rehabilitation			
	Researches and Cases			
Applications in	EksoNR exoskeleton clinical application, EksoNR application and skills lab	Dr Tiffany CHOI	3	3/6/2025 (Tue)
Robotic Rehabilitation				
Indications in Robotic	Exoskeleton for treating Stroke	Dr Ivan Su /	4	4/6/2025 (Wed)
Rehabilitation	Exoskeleton for treating Cerebral palsy	Prof. Mayte Vega		
	Exoskeleton introduction and implementation	Prof. WEE Seng Kwee	5	7/6/2025 (Sat)
	Exoskeleton for treating multiple sclerosis			10:00 - 13:00
	Spinal Cord Stimulator and Robotic Rehabilitation		6	14:00 – 17:00
Practicum	Robotic rehabilitation for Real Patient Cases (1) Upper Limb Robot	Mr. Benjamin LAU	7	14/6/2025 (Sat)
				10:00 - 13:00
	Robotic rehabilitation for Real Patient Cases (2) Exoskeleton		8	14:00 - 17:00

Venue:

OLC SR Seminar Room, Orthopaedic Learning Center, 1/F, Li Ka Shing Specialist Clinic (North Wing), Prince of Wales Hospital, Shatin

CYT214 CYT 214, Cheng Yu Tung Building, CUHK Campus, 9 Chak Cheung Street, Shatin (near Hyatt Hotel)

YIA 605, Yasumoto International Academic Park, Chung Chi College, CUHK Campus, Shatin CUHKMC RC

Alex Wong Sports Medicine and Rehabilitation Centre, 1/F, CUHK Medical Center, Shatin

Brief Description:

Introduction of Robotic Rehabilitation for Neuroplasticity Rehabilitation and therapeutic application of exoskeleton for rehabilitation

介紹以機器人康復治療的神經可塑性康復,及外骨骼在康復中的治療應用。

Learning Outcome:

Students will understanding the followings:

- 1. Principles Neuroplasticity and Rehabilitation;
- 2. Principles of Robotic Rehabilitation and its application;
- 3. Updated with the Latest information of Robotic Rehabilitation Technology

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With each assignment, students will be required to submit a signed <u>declaration</u> that they are aware of these policies, regulations, guidelines and procedures.

- In the case of group projects, all members of the group should be asked to sign the declaration, each of whom is responsible and liable to disciplinary actions, irrespective of whether he/she has signed the declaration and whether he/she has contributed, directly or indirectly, to the problematic contents.
- For assignments in the form of a computer-generated document that is principally text-based and submitted via VeriGuide, the statement, in the form of a receipt, will be issued by the system upon students' uploading of the soft copy of the assignment.

Assignments without the properly signed declaration will not be graded by teachers.

Only the final version of the assignment should be submitted via VeriGuide.

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Speakers:

Professor Herman LAU	PhD (PolyU), MPhil (PolyU), MPA (Mgt. & Tech.), PGDipAppSc (Syd.), ProfDipPhysio (PolyU), Hon FMSHP				
(Module Head)	Director of Allied Health Services, CUHK Medical Centre				
	Adjunct Associate Professor, JC School of Public Health and Primary Care, Faculty of Medicine, the Chinese University of Hong Kong				
	Honorary Professor, Hong Kong Metropolitan University				
	Professor of Practice, School of Health Sciences, St Francis University				
Dr. Tiffany CHOI	DHSc (Physio) (HKPolyU), MSc SMHS (CUHK), Prof Dev Dip (Accupuncture for Physiotherapists) (HKBU), BSc (Hon) Physio (HKPolyU), RPT				
	Associate Professor of Practice, Programme Leader of BSc (Hon) in Physio., S. K. Yee School of Health Sciences, St Francis University				
Ms. Eva CHUN	MSc Health Services Management (CUHK), MSc Manipulative Physiotherapy (PolyU), BSc (Hon) PT (PolyU), Registered Physiotherapist				
	Physiotherapist, CUHK Medical Centre				
Prof. Mayte Vega	20 years neuropediatrics clinical experience.				
	12 years experience with robotic devices for children and adult.				
	Master in Pediatrics, San Pablo CEU University, Madrid.				
	Osteopath C.O , The University of Alcalá de Henares, School of Osteopathy of Madrid.				
	Associate Professor, Physiotherapy in Pediatrics, Francisco de Vitoria University, Madrid.				
	Professor at Pediatric Master, San Pablo University, Madrid.				
	Professor at Pediatric Master Ostheopath, School of Ostheopathy of Madrid.				
Dr Ivan SU	DHSc (PolyU), Registered Physiotherapist				
	Head of Professional and Programme Development, SAHK				
Mr. Benjamin LAU	MSc in Manipulative Physiotherapy (PolyU), BSc (Hon) in Physiotherapy (PolyU)				
	Registered Physiotherapist, CUHK Medical Center				
Professor WEE Seng	PhD (Neurorehabilitation), University of Southampton, United Kingdom				
Kwee	Associate Professor, Singapore institute of Technology				
	Principle Physiotherapist, Tan Tock Seng Hospital, Singapore				