

MRGO6306 Robotic Rehabilitation Therapy 機器人康復治療 (2 credit units)

2023/24

Module Head: Professor Herman Lau

Session	1	2	3	4	5	6	7	8	Exam
Date	24/5/24 (F)	30/5/24 (Thu)		1/6/24 (Sat)		21/6/24 (F)	22/6/24 (S) AM	22/6/24 (S) PM	25/6/24 (Tue)
Time	1830-2130	1830-2130	1830-2130	1000-1300	1400-1700	1830-2130	1000-1300	1400-1700	19:00
Venue	OLC SR	OLC SR	OLC SR	CUHKMC RC		CYT LT5	CYT 214	CYT 214	OLC SR

Contents

Mini-module	Topic	Speaker	Session	Time slot
Introduction of Robotics technology	Introduction to Robotics for Rehabilitation – End effector based robotic rehabilitation	Dr Tiffany CHOI	1	24/5/2024 (Fri)
	Introduction to Robotics for Rehabilitation – Exoskeleton based robotic rehabilitation Researches and Cases			18:30-21:30
Applications in Robotic Rehabilitation	EksoNR exoskeleton clinical application, EksoNR application and skills lab	Dr Tiffany CHOI	2	30/5/2024 (Thu) 18:30-21:30
Neuroplasticity principles	1. Principles of Neuroplasticity 2. Principles of Gait 3. Locomotor Training 4. Traditional Physiotherapist Practice in Neuroplasticity Rehabilitation	Ms. Eva CHUN	3	31/5/2024 (Fri) 18:30-21:30
Practicum	Robotic rehabilitation for Real Patient Cases (1) Upper Limb Robot	Mr. Benjamin LAU	4	1/6/2024 (Sat) 10:00-13:00
	Robotic rehabilitation for Real Patient Cases (2) Exoskeleton		5	1/6/2024 (Sat) 14:00-17:00
Indications in Robotic Rehabilitation	Exoskeleton introduction and implementation	Prof. WEE Seng Kwee	6	21/6/2024 (Fri) 18:30-21:30
	Exoskeleton for treating Cerebral palsy Exoskeleton for treating stroke and multiple sclerosis	Prof. WEE Seng Kwee	7	22/6/2024 (Sat) 09:00-17:00
	Spinal Cord Stimulator and Robotic Rehabilitation	Prof. WEE Seng Kwee	8	

Venue:

CUHKMC RC

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

CYT LT5

Lecture Theatre 5, 3/F, Cheng Yu Tung Building, The Chinese University of Hong Kong, 9 Chak Cheung Street, Shatin

CYT 214

Room 214, 2/F, Cheng Yu Tung Building, The Chinese University of Hong Kong, 9 Chak Cheung Street, Shatin

OLC SR

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

Assessment:

End of Module Examination (100%)

Date: 25/6/2024 (Tue)

Time: 19:00

Venue: OLC SR, PWH

Format: Written / MCQ Exam

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- 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 (Module Head)	PhD (PolyU), MPhil (PolyU), MPA (Mgt. & Tech.), PGDipAppSc (Syd.), ProfDipPhysio (PolyU), Hon FMSHP 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 Assistant Professor, Deputy Programme Leader of BSc (Hon) in Physio., 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
Mr. Benjamin LAU	MSc in Manipulative Physiotherapy (PolyU), BSc (Hon) in Physiotherapy (PolyU) Registered Physiotherapist, CUHK Medical Center
Professor WEE Seng Kwee	PhD (Neurorehabilitation), University of Southampton, United Kingdom Associate Professor, Singapore institute of Technology Principle Physiotherapist, Tan Tock Seng Hospital, Singapore