



UNIVERSIDADE FEDERAL DE PERNAMBUCO
CENTRO DE CIÊNCIAS DA SAÚDE
GRADUATE PROGRAM IN PHYSIOTHERAPY



Code	PGFT929		
Name of the subject	Advanced Functional Aspects of Neuroscience in Neuromusculoskeletal Physiotherapy		
Course load	45 h	Course load	45 h
Subject Program			
To promote a study on the mechanisms involved in motor control; to provide theoretical–practical basis for motor learning analysis; and a theoretical–practical basis for physiotherapeutic approaches in the rehabilitation process based on neuroscience advances.			
REFERENCES			
<p>1. BEAR, Mark F.; CONNORS, Barry W.; PARADISO, Michael A. Neurociências: desvendando o sistema nervoso. Artmed Editora, 2016.</p> <p>2. BEYAERT, C.; VASA, R.; FRYKBERG, G.E. Gait post-stroke: Pathophysiology and rehabilitation strategies. <i>Clinical Neurophysiology</i> (2015) 45, 335-355.</p> <p>3. CARR, Janet; SHEPHERD, Roberta. Reabilitação neurológica: otimizando o desempenho motor. Manole, 2008.</p> <p>4. FAIRBROTHER, Jeffrey T. Fundamentos do comportamento motor. Manole, 2012.</p> <p>5. GHAI, S.; GHAI, I.; EFFENBERG, A.O. Effects of dual tasks and dual-task training on postural stability: a systematic review and meta-analysis. <i>Clinical Interventions in Aging</i> (2017)12, 557–577.</p> <p>6. KANDEL, Eric et al. Princípios de Neurociências. AMGH Editora, 2014.</p> <p>7. LATASH, M. L., LEVIN, M. F., SCHOLZ, J. P., & SCHÖNER, G. (2010). Motor control theories and their applications. <i>Medicina</i>, 46(6), 382.</p> <p>8. LENT, Roberto. Cem bilhões de neurônios: conceitos fundamentais de neurociência. Atheneu, 2004.</p>			

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11. PURVES, Dale Augustine et al. *Neurociência*. 2008.
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