



UNIVERSIDADE FEDERAL DE SÃO CARLOS
PRÓ-REITORIA DE PÓS-GRADUAÇÃO

Via Washington Luís, Km 235 - Caixa Postal 676

Fones: (16) 3351-8109 / 3351-8110

Fax: (16) 3361-3176

CEP 13.565-905 - São Carlos - SP - Brasil

End. Eletrônico: propp@ufscar.br

FICHA DE CARACTERIZAÇÃO DE DISCIPLINAS

1. Programa de Pós-Graduação em:

Programa de Pós-Graduação em Fisioterapia

2. Objetivo da Ficha: Criação de disciplina.

Código da Disciplina	FIT-571	Total de Créditos	1	Início de Validade	2o. período de 2018
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Nome da Disciplina	The Use Of Wiifit For Children With Developmental Coordination Disorder (DCD)
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Campos a serem Alterados

☐ Código da Disciplina	☐ Nome da Disciplina	☐ Carga Horária	☐ Ementa
☐ Código Anterior:	☐ Créditos	☐ Pré-Requisitos	

Justificativa:

3. Carga Horária da Disciplina:

Aulas Teóricas	15	Aulas Práticas	0	Exercícios e Seminários	0
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4. Ementa da Disciplina:

- 1 Developmental Coordination Disorder (DCD) Assessment and evidence-based Intervention;
- 2 Motor Skill Development (including Balance and Agility);
- 3 Balance component and intervention to improve this component in children with DCD;
- 4 How to use the WiiFit for assessment and intervention in children with DCD;
- 5 How to use the Kitap in children with DCD;
- 6 Physical fitness in DCD; outcome measures and training with the Wii;
- 7- Practical session static and dynamic balance tests (and comparison between tests);
- 8- Practical session sprint and agility tests (and comparison between tests);
- 9- Practical session functional strength tests (and comparison between tests);
- 10- Summary and conclusion of testing children with motor problems

5. Caráter da Disciplina:

Criada para o curso de:

☒ Mestrado

☒ Doutorado

☐ Mestrado Profissional

☐ Todos

Caráter para mestrado:

☐ Obrigatória para:

☒ Optativa para: Fisioterapia e Desempenho Funcional.

☐ Alternativa para:

☐ Área de Concentração para:

☐ Específica de Linha para:

Caráter para doutorado:

☐ Obrigatória para:

☒ Optativa para: Fisioterapia e Desempenho Funcional.

☐ Alternativa para:

☐ Área de Concentração para:

☐ Específica de Linha para:

Caráter para mestrado profissional:

☐ Obrigatória para:

☐ Optativa para:

☐ Alternativa para:

☐ Área de Concentração para:

☐ Específica de Linha para:

6. Disciplinas que São Pré-Requisitos:

7. Bibliografia Principal:

American Psychiatric Association. (2013). Diagnostic and Statistical Manual of Mental Disorders, DSM-5. Retrieved from dsm.psychiatryonline.org

Aertssen WFM, Ferguson GD, Smits-Engelsman BCM. (2016). Reliability and structural and construct validity of the Functional Strength Measurement in Children aged 4 to 10 years. *Physical Therapy*, 96; 6: 888-897.

Blank, R., Smits-Engelsman, B., Polatajko, H., Wilson, P., & European Academy for Childhood Disability. (2012).

European Academy for Childhood Disability (EACD): recommendations on the definition, diagnosis and intervention of developmental coordination disorder (long version). *Developmental Medicine and Child Neurology*, 54(1), 5493.

<https://doi.org/10.1111/j.1469-8749.2011.04171.x>

Henderson SE, Sugden DA, Barnett AL. (2007). Movement assessment battery for children second edition (Movement ABC-2) examiners manual. London, Harcourt Assessment.

Jelsma, D., Geuze, R. H., Mombarg, R., & Smits-Engelsman, B. C. M. (2014). The impact of Wii Fit intervention on dynamic balance control in children with probable Developmental Coordination Disorder and balance problems. *Human Movement Science*, 33(1), 404418. <https://doi.org/10.1016/j.humov.2013.12.007>

Jelsma, L. D., Smits-Engelsman, B. C. M., Krijnen, W. P., & Geuze, R. H. (2016). Changes in dynamic balance control over time in children with and without Developmental Coordination Disorder. *Human Movement Science*, 49, 148 159. <https://doi.org/10.1016/j.humov.2016.07.003>

Smits-Engelsman, B. C. M., Jelsma, L. D., Ferguson, G. D., & Geuze, R. H. (2015). Motor Learning ; An Analysis of 100 Trials of a Ski Slalom Game in Children with and without Developmental Coordination Disorder. *Plos One*, 10(10), 1 19. <https://doi.org/10.1371/journal.pone.0140470>

Smits-Engelsman, B., Vinçon, S., Blank, R., Quadrado, V. H., Polatajko, H., & Wilson, P. H. (2018). Evaluating the evidence for motor-based interventions in developmental coordination disorder: A systematic review and meta-analysis. *Research in Developmental Disabilities*, 74, 72 102. <https://doi.org/10.1016/j.ridd.2018.01.002>

Smits-Engelsman BCM, Jelsma LD, Ferguson GD. (2017). The effect of exergames on functional strength, anaerobic fitness, balance and agility in children with and without motor coordination difficulties living in low-income communities. *Hum Mov Sci*, 55:327337. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27423302>

Smits-Engelsman BCM, Verhoef-Aertssen WFM. (2012). Functional Strength Measurement (FSM) manual . The Netherlands, Meteren.