

BSE217 Motor Development, Control and Learning

Level: 2

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY SEMESTER

Synopsis:

BSE217 Motor Development, Control and Learning provides fundamental knowledge of how the development of body systems influences the emergence of motor milestones and how the central nervous system controls movements to facilitate performance and acquisition of motor skills. Important topics including pre- and post-natal development, processes of motor learning and instructional strategies related to skill acquisition will be covered through a series of lectures, assignments and practical exercises.

Topics:

- Defining the Motor Development, Control & Learning Field
- Theoretical Perspectives in Motor Development
- Prenatal Development
- Postnatal Development
- Development of Postural Control
- Development of Fundamental Movement Skills
- Classification of Motor Skills
- Neuromotor Basis for Motor Control
- Motor Control Theories
- Defining and Assessing Motor Learning
- Instruction and Augmented Feedback
- Practice Conditions

Textbooks:

Magill, R. A. & Anderson, D. I.: Motor Learning and control: Concepts and applications (eText) 12th Edition McGraw
ISBN-13: 9781260579680

Learning Outcome:

- Explain common terminology, key theories and concepts related to motor development, control and learning.
- Discuss learning characteristics of Fitts and Posner Three-Stage Model.
- Outline neuro-processes underlying the control of voluntary movement.
- Differentiate between novice and proficient skill performance.
- Differentiate between motor performance and motor learning.
- Employ instructions, feedback and practice conditions to enhance motor skill acquisition.
- Formulate effective training programmes based on motor learning concepts and principles of instruction, feedback and practice conditions.

Assessment Strategies (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PRE-CLASS QUIZ 1	1.66
	PRE-CLASS QUIZ 2	1.67
	PRE-CLASS QUIZ 3	1.67
	TUTOR-MARKED ASSIGNMENT 1	15
	TUTOR-MARKED ASSIGNMENT 2	30
Overall Examinable Components	Written Exam	50
Total		100