

**How Bond University Doctor of Physiotherapy Students have been prepared for their Orthopaedic Clinical Placement**

Coursework Subject	What were the main knowledge areas covered?	What were the major practical skills covered?
Principles of Physiotherapy	<ul style="list-style-type: none"> <li>• Professionalism</li> <li>• Problem based learning – an introduction</li> <li>• Communication</li> <li>• An understanding of the role that cultural diversity, particularly for Indigenous Australians, can have on physiotherapy management, and how to select strategies to produce the best outcomes for the client</li> <li>• Historical and contemporary physiotherapy practice</li> <li>• Context of Physiotherapy practice</li> <li>• Evidence-based practice</li> <li>• Reading /evaluation of evidence</li> <li>• Ethics and medico-legal aspects of practice</li> <li>• Clinical record keeping</li> <li>• Infection control</li> <li>• An introduction to physical examination / management overview and principles</li> <li>• An introduction to manual handling and lifting</li> <li>• Introduction to massage</li> <li>• Introduction to hydrotherapy</li> <li>• Posture and Movement analysis</li> <li>• Measurement of the human body (Goniometry, Manual muscle tests, Muscle length tests)</li> <li>• Workplace health and safety principles</li> <li>• Physiotherapy across the Lifespan (development, specific considerations)</li> <li>• The principles of electro-therapeutic agents</li> <li>• Surface and laboratory anatomy</li> </ul>	<ul style="list-style-type: none"> <li>• Client interview – Taking a history</li> <li>• Manual handling and lifting</li> <li>• Physical examination (including posture, goniometry, manual muscle tests, muscle strength tests)</li> <li>• Basic massage and other soft tissue techniques</li> <li>• Use of mobility aids</li> <li>• Fundamentals of manual therapy</li> <li>• Strapping and bandaging</li> <li>• Use of electrophysical modalities</li> </ul>

Coursework Subject	What were the main knowledge areas covered?	What were the major practical skills covered?
<b>Musculoskeletal Physiotherapy I</b>	<ul style="list-style-type: none"> <li>• The major physiological and pathological processes occurring in the human musculoskeletal system</li> <li>• The mechanisms of healing and repair in different human tissues and organs related to the musculoskeletal system</li> <li>• The mechanisms of action of pharmacological agents commonly used for musculoskeletal conditions</li> <li>• The role of physiotherapy in the management of selected peripheral joint musculoskeletal conditions and spinal surgery</li> <li>• Conducting an inpatient and outpatient client interview and planning a suitable examination</li> <li>• Conducting an examination of common peripheral inpatient (orthopaedic) and outpatient conditions, as well as for elective spinal surgeries</li> <li>• Differential diagnoses of peripheral joint injuries in terms of pathology and across the lifespan</li> <li>• The basic treatment interventions for common peripheral joint conditions and pre and post-operative orthopaedic surgery including selection and progression of appropriate mobility aides</li> <li>• The selection of appropriate outcome measures</li> <li>• Evaluation of treatment intervention effectiveness and progression or modification of the intervention (based on clinical reasoning and evidence based practice)</li> <li>• A basic knowledge of modern medical imaging techniques and having an understanding of the rationale for their selection</li> <li>• An understanding of common musculoskeletal / orthopaedic surgical techniques</li> <li>• Lower limb and upper limb exercise techniques, including training principles and exercise selection</li> <li>• Fundamentals of a home exercise program</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment and management of common peripheral joint orthopaedic inpatient and outpatient conditions including: <ul style="list-style-type: none"> <li>○ Peripheral joint fractures</li> <li>○ Pre- and post-operative (elective and non-elective orthopaedic peripheral and spinal surgery)</li> </ul> </li> <li>• Assessment and management of biomechanical contribution to peripheral joint injuries</li> <li>• Knowledge of the contribution of abnormalities in motor control to symptoms</li> <li>• History taking and physical examination for musculoskeletal soft tissue disorders in the peripheral joints, including differential diagnosis, in both inpatient and outpatient settings</li> <li>• Use of the clinical reasoning process throughout the interview and history taking and physical examination to develop a provisional diagnosis from which an appropriate physical assessment and treatment plan can be developed</li> <li>• Treatment and prevention strategies, including use of manual therapy, exercise prescription, selection of appropriate mobility aides, and client education.</li> <li>• Health promotion and injury prevention</li> <li>• Role of exercise (prescription, delivery and compliance) for the peripheral joints</li> <li>• Evaluation of the effects of the treatment plan with the ability to progress / modify at an optimal level for the patient's goals.</li> </ul>

