**Supplemental Digital Content file 1:**

The publicly available handbook for the UTS MPhysiotherapy course (<https://www.handbook.uts.edu.au/courses/c04306.html>) contains detailed subject descriptions of all subjects in the first semester.

Below is relevant information for the 14-week Pain Neuroscience and Management subject.

**Example case-based learning activity addressing conceptual change:** One groupwork case study runs across several weeks of classes where a patient who initially presents with an acute ankle sprain later presents with increasingly complex chronic pain.

**Description**

Students learn to manage people challenged by acute and chronic pain conditions using contemporary pain neuroscience. An understanding of neurobiological mechanisms, psychological factors, and social factors influencing pain informs clinical assessments and treatments. Students gain an understanding of the role of the physiotherapist in the wider interdisciplinary pain management team. Students use evidence-based practice and clinical reasoning to identify interventions that target pain neurobiology and maladaptive knowledge and beliefs including education-focused interventions. Emerging approaches to pain management are addressed and pain management is considered in special populations such as stroke, dystonia, multiple sclerosis, rheumatoid arthritis, cancer, children and the elderly.

**Subject learning objectives (SLOs)**

|  |  |
| --- | --- |
| 02. | Link structural and/or functional pathophysiology to a client’s clinical presentation |
|  |  |
| 04. | Assess client's problems with reference to the WHO ICF domains of impairment, activity limitation and participation restriction |
|  |  |
| 06. | Apply clinical reasoning to determine best physiotherapy care |
|  |  |
| 08. | Justify assessment selection with reference to the evidence for its clinimetric properties |
|  |  |
| 15. | Establish goals with client and families/caregivers |
|  |  |
| 17. | Collaborate and participate in shared decision-making with the client and relevant others |
|  |  |
| 18. | Design an intervention |
|  |  |
| 19. | Provide an evidence-based justification for intervention selection |
|  |  |
| 25. | Evaluate the efficacy of an intervention |
|  |  |
| 27. | Use education to empower clients and caregivers |
|  |  |
| 30. | Empower a client’s self-management and self-efficacy |
|  |  |
| 39. | Maintain professionalism in verbal and written communication |
|  |  |

**Course intended learning outcomes (CILOs)**

The learning outcomes for this subject are as follows:

* Knowledge and skills: Integrate core biomedical and social health science knowledge across the breadth of physiotherapy practice to inform assessment and safe, competent and skilled practical care of individuals across the lifespan as an autonomous practitioner and as a member of an interprofessional team. (01.01)
* Clinical reasoning: Identify impairment, activity and participation deficits in individuals in accordance with the International Classification of Function, Disability and Health framework and develop evidence-based care plans in accordance with best practice physiotherapy. (01.02)
* Critical thinker: Critically analyse the evidence underpinning practice and effectively apply new knowledge to practice; conduct and disseminate high-quality research to improve professional knowledge and influence direction of future practice. (02.05)
* Research-enabled: Apply scientific research skills to advance the evidence base supporting physiotherapy practice. (02.09)
* Communication: Communicate effectively using high-level interpersonal skills in both traditional modes of communication and when integrating advances in technology and methods of intervention delivery into patient care. (03.06)
* Client focus: Provide empathetic, compassionate and respectful patient-focused care, facilitating client self-management, advocating for best practice care and empowering clients by education. (04.03)

**Contribution to the development of graduate attributes**

**Practice ready**

Graduates of the Master of Physiotherapy are knowledgeable, practice-ready clinicians, skilled in providing safe and effective evidence-based care to clients across the lifespan, using a wide range of therapeutic approaches including skilled hands-on practice, and in a variety of clinical settings as both independent and collaborative practitioners.

**Research-enabled**

Graduates of the Master of Physiotherapy effectively integrate research evidence into practice, are proactive in identifying gaps in knowledge and are competent to undertake research to advance the evidence base and inform future physiotherapy practice.

**Professionally Competent**

Graduates of the Master of Physiotherapy embody professional and ethical practice, maintaining knowledge and competence at local and global standards. Graduates embrace opportunities for leadership and advanced roles, utilise deliberate practice to optimise physiotherapy care and advocate for the profession in interdisciplinary contexts.

**Person-centred**

Graduates of the Master of Physiotherapy are empathetic, person-centred practitioners who empower client self-management and endorse preventative care by forming and valuing partnerships with individuals, families and communities.