



# Universiteit van Pretoria Jaarboek 2017

## Teorie van kerngeneeskunde 710 (TKG 710)

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| <b>Kwalifikasie</b>           | Nagraads                                         |
| <b>Fakulteit</b>              | <a href="#">Fakulteit Gesondheidswetenskappe</a> |
| <b>Modulekrediete</b>         | 25.00                                            |
| <b>Programme</b>              | <a href="#">BRadHons Kerngeneeskunde</a>         |
| <b>Voorvereistes</b>          | Geen voorvereistes.                              |
| <b>Kontaktyd</b>              | 1 lesing per week                                |
| <b>Onderrigtaal</b>           | Module word in Engels aangebied                  |
| <b>Akademiese organisasie</b> | Radiografie                                      |
| <b>Aanbiedingstydperk</b>     | Jaar                                             |

### Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

Revision of relevant anatomy, physiology and pathology. Procedures of musculoskeletal, endocrine, respiratory, genito-urinary, gastro-intestinal, hepatobiliary, cardiovascular, central nervous systems. Infection and SPECT imaging. Procedures including lymphatics, venograms, ciliary clearance, dacryoscintigraphy. Non-imaging procedures. Radio-immunoassays: History, basic principles, antibody production. Monoclonal antibodies. Radioimmunosintigraphy. Radiation safety. Tumour imaging and therapeutic procedures. Paediatric techniques. PET and PET/CT. Indications and contra-indications. Effects of medication on procedures. Drug intervention. Radiopharmaceuticals: methods of administration, choice, physiological pathways, patient dose, quality control. Instrumentation, collimation, settings, quality control. Patient treatment: patient preparation, instructions, route and technique of radiopharmaceutical administration. Procedures: choice of examination, patient positioning, field of view, orientation, routine views, static and dynamic imaging, SPECT imaging, modified views. Radiation effects: physical, biological and effective  $T_{1/2}$ , target organs, excretory pathways, protection. Quality control. Pattern recognition and interpretation of procedures. Problems and pitfalls. Emerging and hybrid technology and applications.

Die inligting wat hier verskyn, is onderhewig aan verandering en kan na die publikasie van hierdie inligting gewysig word.. Die [Algemene Regulasies \(G Regulasies\)](#) is op alle fakulteite van die Universiteit van Pretoria van toepassing. Dit word vereis dat elke student volkome vertrouwd met hierdie regulasies sowel as met die inligting vervat in die [Algemene Reëls](#) sal wees. Onkunde betreffende hierdie regulasies en reëls sal nie as 'n verskoning by oortreding daarvan aangebied kan word nie.