

2022-2023

DRAD6202 – Advance Radiological Physics and radiation dosimetry

| Topic | Teaching mode (e.g. Lecture, Tutorial, Lab, Practical) |
|--|---|
| S01: Atomic and Nuclear structure | Lecture |
| S02: Radioactivity & Radioactive decay | Lecture |
| S03: Photon interaction with matter 1 | Lecture |
| S04: Photon interaction with matter 2 | Lecture |
| S05: Charged particles interaction with matter 1 | Lecture |
| S06: Charged particles interaction with matter 2 | Lecture |
| S07: Tutorial I | Tutorial |
| S08: Production and beam quality of X-Ray | Lecture |
| S09: Short quiz | Quiz |
| S10: Neutron interaction with matter | Lecture |
| S11-S12 : Practical | Practical |
| S13: Radiation quantities & units | Lecture |
| S14: Cavity theory and radiation dosimetry 1 | Lecture |
| S15: Cavity theory and radiation dosimetry 2 | Lecture |
| S16: Absolute dosimetry & techniques | Lecture |
| S17: Relative dosimetry & techniques 1 | Lecture |
| S18: Relative dosimetry & techniques 2 | Lecture |
| S19: Calibration of photon/ electron beams | Lecture |
| S20: Tutorial 2 | Tutorial |

Assessment method: 20 % in-course assessment
50 % final examination
30 % others (please specify): Test , report writing

Classes to be held on Saturday afternoon (except practical to be held on weekend afternoon) in the 1st semester