



## SAINTS@tlabs Course Framework

[S]outhern [A]frican [I]nstitute for [N]uclear [T]echnology and [S]ciences

*Empowerment through education, training and practice*

**16 - 17 May 2024**

### Short Course: *A primer on Radiation Protection (SC-RadPro)*

#### Facilitators:

Mr Tiro Modisane, MSc, NRF-iThemba LABS

Mr Philip Beukes, MMedSc, NRF-iThemba LABS

An **ONLINE** Radiation Protection short-course offered over two days on topics tailored to suit post-graduate students (Honors – PhD), researchers and personnel working in radiation environments. The following topics will be covered in the two sessions:

- **Session 1 (1,5h)**
  - Act and Regulations pertaining to electronic generators of ionizing radiation (Group III hazardous substances) and radioactive substances (Group IV hazardous material)
  - The System of Radiation Protection

- **Session 2 (1,5h)**

- Physical quantities in radiological protection: ✦ absorbed dose
- ✦ equivalent dose
- ✦ effective dose
- ✦ committed effective dose
- ✦ statutory limits

**Target audience:** postgraduate students, and junior research staff working on projects involving radioactivity or ionizing radiation

**No. of lectures/contact sessions:** 2 sessions of 1,5 hours each

**Course assessment method(s):** Test

**Course certificate to be issued:**

- Attendance (provided attendance > 90 %, submission of all assignments)
- Successful completion (provided attendance > 90 %, and > 60 % average in assessment(s))

**Presentation venue:** virtual (Zoom platform) : Link to be sent after registration

**Course dates/times:** 16 – 17 May 2024, 14h30 to 16h00

**Course registration deadline:** 15 May 2024

**Course registration link:** <https://indico.tlabs.ac.za/event/131/registrations/102/>

**Contact for queries on course:** Course Convener – [pr.beukes@ilabs.nrf.ac.za](mailto:pr.beukes@ilabs.nrf.ac.za)

**Contact for general queries:** [saintsadmin@tlabs.ac.za](mailto:saintsadmin@tlabs.ac.za)



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