



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)

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

Course registration deadline: 16 – 17 May 2024

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



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**iThemba
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Laboratory for Accelerator
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