

**Module details:** NEC302.

(Natural Science Education Community service)

**Department:** Department of Physics

**Module offered during:** Year

**Study year of students:** Third year

**Credits:** 8

**Community partners:** Dr. Blok and Petunia Schools

**Service sector partner:** Boyden Observatory

**Brief description:** Students are taught the basics of CSL, cultural competence and Pedagogy. Selected schools are being visited with the aim of addressing the needs of the Science classes grade 10 – 12. A program is then being prepared and presented for that class at Boyden Science Centre.

Six of Last year's students are presenting extra classes twice a week at these schools.

**Service learning component:** Working with disadvantage schools to improve the science teaching in aiding the teachers.

**Outcomes for students:**

Determine community needs with regard to the subject of Natural Sciences by completing a needs analysis of target populations (special focus on school learners grade 10 – 12 and the natural science educators).

Identify and liaise with potential partners in the community in order to address the identified needs.

Plan and execute a specific service to the identified community in collaboration with the partners using the Boyden Science Centre as a platform.

Evaluate (follow-up) the impact of the service and determine the future of the partnership.

Re-implement having reflected on reported evaluation results, thus continuing the process of action learning.

**Impact on community:** Teachers and learners are empowered by new teaching techniques and constructivism.

**Lecturer(s):** Mrs DP Van Jaarsveldt, DE Van Jaarsveldt, L Botha.









