



Evaluation Report BKO portfolio

Portfolio of BKO candidate : Prof. dr. ir. C.H. (Caspar) van der Wal

Faculty / department BKO candidate : FWN/Zernike Institute for Advanced Materials
Referees:
ir. J.E. van der Laan, E. (Elke) Klunder-Deinum, MSc

Evaluation Committee: Prof. Dr. J. T. M. Elzenga (FWN), Prof. Dr. M. J. Goedhart (FWN) and
Drs. J. A. Mulder (ESI)

Date: February 20th, 2015

The portfolio

In his portfolio, Caspar van der Wal describes the course Quantum Physics 1, a second year bachelor course for physics and astronomy students. The portfolio shows that the course is designed in a traditional way but Caspar van der Wal experiments with new methods of instruction, such as Peer Instruction. His enthusiasm for teaching is clearly visible in his portfolio.

Course design

Caspar van der Wal describes several developments within the course from 2004, the year he taught the course for the first time. The goals of the course are well formulated and although the design is traditional with lectures and tutorials, there is a strong emphasis on activation and stimulation of the students. The course website fulfils its function well.

Teaching and supervising students

Caspar van der Wal shows several different activities indicating he is capable of finding the right design to achieve the learning goals. His reflection on these activities is good.

The supervision of students (BSc, MSc and PhD) is set up well by the teacher. There is a clear summary at the start, individual weekly meetings result in a work plan. Progress meetings with the full team intend to stimulate the students and a mid-term check is used for adjustment of the goals.

Assessment

The summative assessment of the course is well organised. The course is completed with a written test which is peer reviewed. An analysis of the questions in several aspects (i.e. cognitive domain and skills) shows that the questions cover the full range of learning outcomes. Validity, reliability and transparency are discussed.

Formative assessment is done during lectures by the use of Peer Instruction, during tutorials by interaction between student and teaching assistants, and by the feedback from the mid-term exam.

Evaluation

The results of the final test are thoroughly analysed and the student evaluations lead to concrete actions. Evaluation of his use of Peer Instruction illustrates the way the teacher considers his role in teaching. His plans for implementing *Just in Time Teaching* confirm this image.

Decision: Awarding the BKO (University Teaching Qualification) certificate

On behalf of the Evaluation Committee,

A handwritten signature in black ink, appearing to read 'm.g.' followed by a stylized flourish.

Prof. Dr. Martin Goedhart (Chair)