Teaching and learning strategies:

The requirements of the NQF underline the acquisition of cognitive skills and exceeding the knowledge and understanding of subject specific knowledge, professional and/or technical competencies. Thus, the qualification focuses on the engagement of students in an interactive learning process in order to develop generic cognitive and intellectual skills, key transferable skills, and, as the case may be, subject specific professional and/or technical practical skills.

The learning process will be facilitated both in and outside the classroom, requiring specific tasks to be carried out by the student. This facilitation will make use of, inter alia, lectures, practical projects, tutorials, case studies, problem based learning and individual and/or group work as well as excursions. Multimedia courses offering online tutorials and lectures will also be used. The progress of learning embedded in such tasks will be monitored, recorded and assessed.

The thesis requires the student to work under the guidance of an academic supervisor, and to follow a defined programme with milestones. The student must collaborate between supervisors (core staff in the department) and people in industry (often the student's supervisor or a senior manager). Such collaboration must be maintained throughout the thesis development process.

Assessment Strategies:

All Courses will be assessed by diversified continuous assessment. To ensure authenticity of assessment evidence, at least 50% of the assessment events making up the final mark must be conducted under controlled conditions similar to those under which institutional examinations are conducted. Should examination conditions not be appropriate for the nature of the assessment, the lecturer and department must take appropriate and rigorous steps to ensure such authenticity.

Quality Assurance Arrangements:

Each course (please refer to the Detailed Qualification Requirements) will have one or more examiners and one moderator. Moderators will be identified externally. The required qualification of the moderator will be at least a Masters degree. The moderator must be knowledgeable individuals who are well-respected experts in the field of earth observation, GIS and Remote Sensing. Lecturing staff will set and mark tests/assignments which will, together with relevant study material of that particular course, be forwarded to the moderator for moderation purposes, therefore, ensuring quality of the assessment and the qualification as a whole. The examinations, memoranda and course outlines will be forwarded to moderators, approved by Senate, for moderation. The thesis will be moderated in accordance with the Polytechnic’s rules for studies at postgraduate level.