

LEARNING OUTCOMES FOR THE GRADUATE STUDY OF ENVIRONMENTAL GEOLOGY

1. Advanced knowledge and understanding of the principles of geology
2. Deeper knowledge of a chosen specialisation
3. Critical awareness of the forefront of their specialisation
4. Advanced understanding of Earth system relevant to their specialisation
5. Appreciation of the learning capacity needed to progress to independent research
6. Ability to specify and complete geological tasks that are complex, incompletely defined or unfamiliar
7. Some ability to formulate and solve problems in new and emerging areas of their discipline
8. Ability to apply state of the art or innovative methods in problem solving, possibly involving use of other disciplines
9. Ability to think creatively to develop new and original approaches and methods
10. Ability to design appropriate experiments, to analyse and interpret data and draw conclusions integrating knowledge from different disciplines, and handling complexity
11. Ability to use advanced, and develop customised, quantitative methods
12. Comprehensive understanding of applicable techniques and methods for a particular specialisation, and of their limits
13. Awareness of the limits of current knowledge and the practical application of the state-of-the-art technology
14. Knowledge and understanding of geology to create geological models of complex systems and processes
15. Basic ability to contribute to the further development of geology in practice and research
16. Ability to produce independent work in their professional and scientific fields
17. Ability to manage and work effectively as leader of teams that may be composed of different disciplines and levels
18. Basic ability to work effectively and communicate in national and international contexts
19. Appreciation of the role of geology in the development of knowledge, wealth creation and improving quality of life
20. Ability to evaluate performance as an individual and a team member
21. Ability to identify individual and collective goals and responsibilities and to perform in a manner appropriate to these roles
22. Ability to evaluate critically professional and research papers
23. Ability to plan and appropriate programme of continuing professional development