

**Alignment of Programme Learning Outcomes  
for Master of Science in the field of Applied Geosciences**

**Statement of Programme Learning Outcomes (PLOs) aligned with or mapped against University Educational Aims (UEAs)**

(applicable to students admitted in the academic year 2021-22 and thereafter)

UEAs	PLOs
<p>(i) Critical intellectual enquiry and acquiring up-to-date knowledge and research skills in a discipline/profession</p> <p>(ii) Application of knowledge and research skills to practice or theoretical exploration, demonstrating originality and creativity</p>	<p>PLO1 can apply geological and related engineering knowledge and skills in the solution of problems in the student's discipline</p> <p>PLO2 can explain, use and critically assess the use of science related to the student's discipline</p> <p>PLO3 insists on knowing the facts before making a judgement; exhibits judicial habits of mind</p>
<p>(iii) Tackling novel situations and ill-defined problems</p>	<p>PLO4 effective in defining and solving problems from first principles, without reliance on solutions from memory; can satisfactorily complete a self-directed study</p>
<p>(iv) Collaboration and communication of disciplinary knowledge to specialists and the general public</p>	<p>PLO5 effective in oral, written and graphical communication in the student's discipline</p> <p>PLO6 works well in a team</p>
<p>(v) Awareness of and adherence to personal and professional ethics</p>	<p>PLO7 knows the standards of conduct required by law, by the student's professional qualifying body and by the university and why it is important to uphold a high standard of professional ethics; knows the specific malpractices that may be encountered in the student's profession and how to guard against malpractice</p>
<p>(vi) Enhancement of leadership and advocacy skills in a profession</p>	<p>PLO8 able to recognise, articulate and advocate the societal benefits of the application of best practice in engineering geology in the construction industry, in the use of earth resources and in the mitigation of geological risk<sup>1</sup>.</p>

<sup>1</sup>. for those taking the Engineering Geology Theme or the Engineering Geology with HKIE Approved Courses Theme of the MSc in Applied Geosciences