

Suggestions on how to use the Joyce Country & Western Lakes geopark project region as a case study for

IRISH UNIVERSITY MODULES: University College Dublin

The table below provides suggestions and ideas for teachers to use to incorporate aspects of the Joyce Country & Western Lakes geopark project within their classrooms. We want to encourage using the geopark region as an outdoor classroom, as a case study area and for the people living within it to realise what a special area it is and be proud of where they live.

We hope to design resources in conjunction with teachers, so if you are interested in working with us, please [contact us](#). We look forward to hearing from and working with you.

Please note, the curriculum information is correct as of April 2020. Only the strand units that apply to the geopark project are mentioned here.

Level: UNIVERSITY	Ideas on how to incorporate JCWL geopark with your teaching
University College Dublin (UCD)	
<ul style="list-style-type: none"> • Igneous Petrology GEOL30240 • Applied Palaeontology GEOL30010 • Metamorphic Petrology GEOL30110 • Geological Fieldwork (Stage 3) GEOL30320 • Geosynthesis GEOL30400 • Earth and Humanity GEOL10050 • Geoscience Research Project GEOL30390 • Geological Mapping Research GEOL40510 	<ul style="list-style-type: none"> • Geopark area as a fieldtrip/ case study for module. • Geopark area as a fieldtrip/ case study for module e.g. looking at trace fossils in limestone and behaviour and environment they represent. Detail of uses of trace fossils and micro fossils. Role of fossils in biostratigraphy and chronostratigraphy. • Geopark area as a fieldtrip/ case study for module. • Develop a fieldtrip especially for this module which includes areas for logging, mapping, structural analysis, faults, depositional environments and palaeogeographic settings. • Develop an activity for this module e.g. deducing geological history using the geological map, interpreting geological map, using ArcGIS/ QGIS to do an activity • Geopark area as a case study for how the geological history has shaped and affected the landscape and how this has influence where we live and what businesses/ industries you can find. • Offer research ideas for this module for what can be done in geopark e.g. using petrology and isotope geochemistry to deduce geological history of geopark and to help determine the oldest rocks found etc. • Geopark as an alternative fieldtrip to what they already offer e.g. Lough Mask Kilbride peninsula has everything for you need to practise your mapping skills



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JOYCE COUNTRY & WESTERN LAKES GEOPARK PROJECT

• Igneous Petrology and Ore Geology
[GEOL40190](#)

• Quaternary Geology [GEOL40490](#)

• Geopark area as a case study for this module
e.g. why mineralisation occurred in geopark and
why different places have different/same
mineralisation.

• Develop an activity for this module e.g. the
glacial process that shaped the landscape we see
today in the geopark, methods used to analyse
the past 2.6 million years, Quaternary and mineral
exploration



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