

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

IRISH UNIVERSITY MODULES: National University Ireland Galway

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
National University of Ireland Galway (NUIG)	
<ul style="list-style-type: none"> • Introduction to Fieldskills EOS2101 	<ul style="list-style-type: none"> • Geopark area as an alternative fieldtrip to what is offered. Develop a fieldtrip/ 'pack' for this module which includes volcanic rocks, sedimentary rocks, sedimentary structures and depositional environments, trace fossils, field relationships, rock contacts, dipping rocks, areas to collect data and a GIS component e.g. digitising maps.
<ul style="list-style-type: none"> • The Earth: From Core to Crust EOS2102 	<ul style="list-style-type: none"> • Geopark area as a case study using its geological history to explain processes that occur.
<ul style="list-style-type: none"> • Fieldskills Training EOS3104 	<ul style="list-style-type: none"> • Geopark area as an alternative fieldtrip to what is offered. Develop a fieldtrip/ 'pack' for this module which includes volcanic rocks, sedimentary rocks, sedimentary structures and depositional environments, trace fossils, field relationships, rock contacts, dipping rocks, areas to collect data and a GIS component e.g. digitising maps.
<ul style="list-style-type: none"> • Sediments and the Sedimentary Record EOS323 	<ul style="list-style-type: none"> • Day trip to geopark area to collect data about sedimentary structures, do sedimentary logs, palaeocurrent data, look at a range of sedimentary rocks, sedimentary depositional environments e.g. Finny – Kilbride road.
<ul style="list-style-type: none"> • Palaeontology & Evolution EOS3103 	<ul style="list-style-type: none"> • 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.
<ul style="list-style-type: none"> • The Crystalline Crust EOS3105 	<ul style="list-style-type: none"> • Day trip to geopark area to observe in-the-field specimens of igneous and metamorphic rocks and infer relationship between metamorphic rocks and parent rocks



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JOYCE COUNTRY & WESTERN LAKES GEOPARK PROJECT

<ul style="list-style-type: none"> • Advanced Fieldskills EOS4103 • Final Year Project EOS403 • History of Life EOS407 <p>Diploma in Scientific Studies:</p> <ul style="list-style-type: none"> -Planet Earth -Earth Materials -Our Coastal Ocean -Geology of Ireland -The Peopled Planet -Observing Earth <p>Diploma in Gemmology</p> <ul style="list-style-type: none"> -The Dynamic Earth -Earth History -Earth Materials -Formation and Geological Settings of Gemstones 	<ul style="list-style-type: none"> •Geopark area as an alternative fieldtrip to what is offered. Develop a fieldtrip/ 'pack' for this module which includes volcanic rocks, sedimentary rocks, sedimentary structures and depositional environments, trace fossils, field relationships, rock contacts, dipping rocks, areas to collect data and a GIS component e.g. digitising maps. •Geopark area as an alternative fieldtrip to what is offered. Develop a fieldtrip/ 'pack' for this module which includes volcanic rocks, sedimentary rocks, sedimentary structures and depositional environments, trace fossils, field relationships, rock contacts, dipping rocks, areas to collect data and a GIS component e.g. digitising maps. •Liaise with NUIG for History of Life module – suggest topics about geopark area e.g. evolution of landscape today, evolution of bogs etc. Video can then be featured on JCWL website. •Geopark area as a fieldtrip destination for diploma to visualise the theory discussed in class e.g. going in to geological history of geopark, the rock type and how they formed, structural features etc •Geopark area as a fieldtrip destination for diploma to visualise the theory discussed in class e.g. going in to geological history of geopark, the rock type and how they formed, structural features etc
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