

Specialist Skills Taught to RES students

Taxonomic skills
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Using identification keys

General scientific skills
General field and lab skills
Lab skills – analyzing anion/cation exchange and concentration in soils
Participatory research skills

Ecological sampling
Field sampling techniques
Sampling and data analysis skills
Field work techniques and data recording
Experimental design
Surveying skills
Water testing and evaluation skills
Identifying soil properties

Scientific writing
Scientific paper reading
Scientific report writing

Basic data analysis
All aspects of data analysis
Use of Minitab and general statistical software packages

Multi criteria decision making skills
Critical reasoning through data analysis
Life cycle analysis skills
Debating skills
Simulation modeling skills
Systems thinking skills
Spatial analysis techniques using GIS
Microscope use
Landscape evaluation
Conversing with specialists
Interpretation of climatic data
Introduction to environmental instrumentation
Using specialist IT software to investigate virtual environments
Poster preparation

Transferable Skills Taught to RES Students

Of the 10 modules audited, transferable skills taught include:

IT	100%
Written communication	90%
Problem solving	90%
Information handling	90%
Numeracy	80%
Team work	70%
Oral communication	50%
Careers management	10%

Taught using:

Lectures	80%
Small group teaching/tutorials	70%
Lab/practical classes	60%
Field classes	50%
Discussion groups/debates	40%
Computer practicals	20%
Directed study	10%
One to one tutorials	10%
Self study	10%
Peer assessment	10%
Role play	10%
Library introduction	10%
Demonstrations	10%

Assessed using:

Oral presentation	60%
Lab report	40%
Field report	40%
Calculations	30%
Project	30%
Poster presentation	30%
Exam	20%
Debate	20%
Essay	20%
Literature review	20%
Other report	10%
Critique	10%
Review questions	10%
Role play	10%
Class test	10%
Assessed exercises	10%