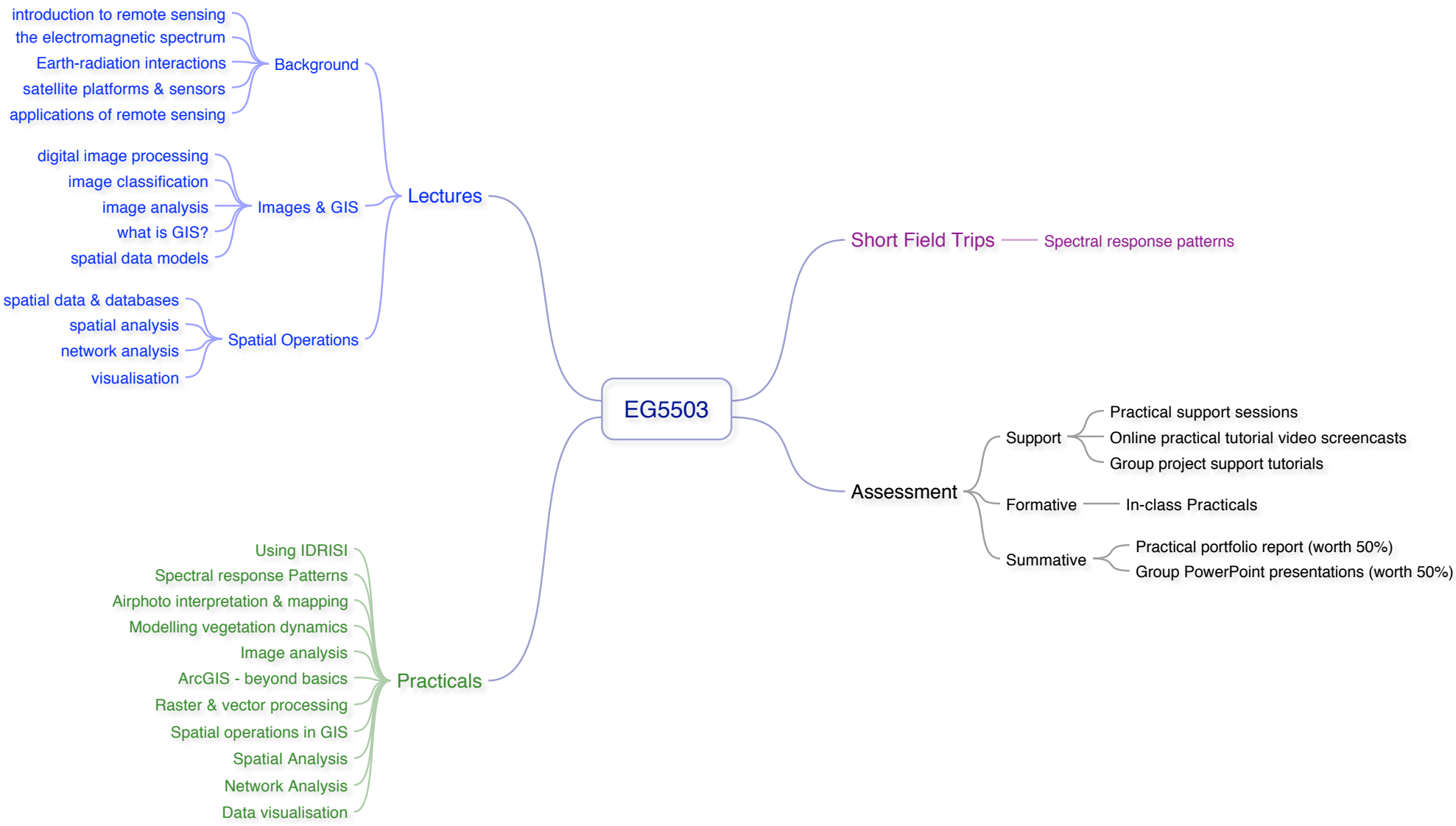
EG5503
Lectures
Background
introduction to remote sensing
the electromagnetic spectrum
Earth-radiation interactions
satellite platforms & sensors
applications of remote sensing
Images & GIS
digital image processing
image classification
image analysis
what is GIS?
spatial data models
Spatial Operations
spatial data & databases
spatial analysis
network analysis
visualisation
Practicals
Using IDRISI
Spectral response Patterns
Airphoto interpretation & mapping
Modelling vegetation dynamics
Image analysis
ArcGIS - beyond basics
Raster & vector processing
Spatial operations in GIS
Spatial Analysis
Network Analysis
Data visualisation
Short Field Trips
Spectral response patterns
Assessment
Support
Practical support sessions
Online practical tutorial video screencasts
Group project support tutorials
Formative
In-class Practicals
Summative
Practical portfolio report (worth 50%)
Group PowerPoint presentations (worth 50%)