



جامعة الحكمة، الورن – نيجر

AL – HIKMAH UNIVERSITY, ILORIN – NIGERIA
Adewole Housing Estate, Adeta Road, PMB 1601, Ilorin, Kwara State

FACULTY OF NATURAL AND APLIED SCIENCES

DEPARTMENT OF CHEMICAL AND GEOLOGICAL SCIENCES

GEOLOGY PROGRAMME

GEM 206 ELEMENTARY SURVEY

PRACTICAL No. 4: GRIDDING

1. Draw a quadrant on the field paper
2. Using your compass-clinometer, fix the magnetic North on your prepared field paper
3. Geo-reference the starting point and record the data (Northing, Easting and Elevation) with your GPS device.
4. Hammer the peg into the point and apply distinct colour paint to the peg.
5. Determine the direction of a comfortable point to the North, South, East or West (as taught in Practical 1) with your Compass and Optical Square.
6. Determine the interval of your gridding (25m, 50m, 100m or 200m).
7. With your measuring tape, stay online along the grid interval and give instructions to the linesmen. Use your optical square to determine the exact 90⁰ line to drive in your peg into the ground.
8. Shift position as often as necessary.
9. Use concrete written pillar to indicate your reference point.
10. Take photographs.

Equipment

GPS device

Compass-clinometer

Optical Square

Measuring tape

Wooden peg

Paint

Walkie-talkie