

SURVEYING AND LEVELLING.

LAND SURVEYING.

Chain Surveys.
 Compass and Theodolite Surveys.
 Methods of keeping Field Notes.
 Determination of Heights and Distances.
 Plotting.

LEVELLING.

Longitudinal and Cross Sections.
 Plotting.

SETTING OUT.

Setting out Straight Lines and Curves.
 Setting out Levels.

MENSURATION.

Lines, Surfaces and Solids.
 Timber, Masonry, Iron and Earthwork.
 Capacities of Reservoirs, etc.

Lectures will also be given on the distinctive features of Mining and Hydrographic Surveying.

Text-Books.—Murray's Manual of Land Surveying (a).
 Gillespie's Higher Surveying (b), (c), (d).
 Henck's or Trautwine's Railway Curves (b), (c).
 Johnson's Theory and Practice of Surveying.

Fees for Special Students, \$14.

PRACTICAL ASTRONOMY AND GEODESY.

ORDINARY COURSE.

The work included in this course is sufficient to fulfil the requirements of the final examination for Provincial and Dominion land surveyors.

In astronomy the principal subjects are the determination of time, latitude and azimuth, and the general principles of the methods of determining longitudes. Practical instruction is given in the methods of taking observations.

In geodesy all surveys, computations and methods of map construction are based upon the supposition that the earth is a sphere.