and other properties of minerals; (3) the description of forty or fifty prominent Canadian minerals, followed by practical work in the determination of these. (See under Blowpipe Analysis.) The practical work of the class is conducted in the mineralogical and blowpipe laboratory, where cabinets containing specimens of commonly occurring minerals are arranged for use. Students are taught to recognize minerals by simple field tests, such as form, colour, streak, hardness, specific gravity, etc. For this work students must provide themselves with a pocket lens, knife, streak-plate, and magnet. The class meets at 9 a.m. on Mondays, and at 8 a.m. three days per week during the last month of the session.

Excursions to mineral localities in the vicinity of Kingston are held on the Saturdays of the fall term.

Text-Books—Williams' Crystallography (Henry Holt & Co.) Dana's Minerals and How To Study Them. Crosby's Tables for the Determination of Minerals.

## (B) Systematic Mineralogy.

Before taking this class, students must have passed in elementary mineralogy, junior chemistry and junior physics. The work is preparatory to that in petrography, geology and descriptive mineralogy, which should be taken in the session following.

The regular work consists of a course of lectures, two hours per week, dealing with the physical, optical and other properties of minerals, illustrated by specimens from the lecture-cabinet, microscopic slides, thin sections, models and charts, supplemented by a course of evening lectures, illustrated by lantern slides, and intended as a review of the work in the day classes. Students taking this class must attend the course of lectures on crystallography delivered early in-the fall term, and those intending to do advanced work in mineralogy must attend the lectures on crystallography delivered in connection with first honour mineralogy, during the fall term. Essays on prescribed subjects are required. The class meets at 2 p.m. on Mondays and 11 a.m. on Wednesdays.

Text-Books-Dana's Text-Book of Mineralogy, 18th ed. 1899. (Wiley & Sons.) Tschermak's Mineralogie.

Williams' Crystallography. (Henry Holt & Co.)

Book for Reference :

Naumann-Zirkel's Mineralogie.

## (C) Descriptive Mineralogy.

Before taking this class, students must have passed in elementary and systematic mineralogy. It should be taken along with petrography, ore deposits and metallurgy.