

Geographical distribution of the meteorological elements, derived from the combination of the results obtained at different stations. Construction of charts exhibiting isothermal, thermic isabnormal and isobarometric lines, &c.

Physical causes which regulate the variations of the meteorological elements, and their geographical distribution.

Investigation of the laws of storms.

Practical application of Meteorology with reference to animal and vegetable life, and the occupations of man.

(*Text-books*—Kaemtz's Meteorology; Brocklesby's Meteorology.)

§ 8.

CHEMISTRY.

Professor—H. H. CROFT, D.C.L.

Subjects of Lectures :

THIRD YEAR.

CHEMISTRY AND CHEMICAL PHYSICS.

Origin and history of Chemistry—connection with other sciences.

General properties of matter—adhesion and cohesion—crystallization—specific gravity, &c.

Heat—expansion—thermometers—ventilation—change of state of aggregation—vapours.

Light—as a chemical agent—photography, &c.

Static Electricity—Galvanism—Magnetism—Electro-Magnetism.

Electric Telegraph—Thunder storms, &c.

Chemical affinity—nomenclature—law of equivalents—atomic theory.

Non-metallic elements—their combinations.

Vegetable Chemistry.

Animal Chemistry.

Application of Chemistry to Agriculture and to Physiology.

The Lectures will be illustrated by experiments, specimens, diagrams, and an extensive collection of models and physical apparatus.

The usual application of the science to manufactures, the arts, pharmacy and medicine, will be made particularly prominent. The detection of poisons and adulterations, as well as testing in general, will also be fully considered.

(*Text-books*—Fownes' Elements of Chemistry; Graham's Elements of Inorganic Chemistry; Lardner's Hand-book of Heat and Electricity, or Miller's Chemical Physics)