

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.)

FOURTH YEAR.

APPLIED CHEMISTRY.

In this course, the application of Chemistry to the arts and manufactures, and to the ordinary purposes of life, will be more fully entered into; as, for instance, glass-making, china and pottery, gas, sugar, calico printing, dyeing, tanning, preservation and preparation of food, metallurgic processes, &c., &c.

The Lectures will be illustrated by diagrams, models, and specimens of manufacture.

(*Text-books*—Knapp's Technology; Ure's and Tomlinson's Dictionary.)

ORGANIC CHEMISTRY.

In this course, an acquaintance with Inorganic Chemistry and with the general principles of the science is presupposed, and more attention will be paid to the vegetable and animal departments than in the third year's course.

The various theories and practical applications will be made more prominent.

(*Text-books*—Gregory's Hand-book of Organic Chemistry; Croft's Synopsis.)