

## 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.)

## ANALYTICAL CHEMISTRY.

In this short course, the preparation of pure re-agents, the use of analytical apparatus, the detection of poisons, and the general process of qualitative analysis will be discussed, and an introduction given to the study of quantitative operations.

(*Text-books*—Fresenius's or Noad's Qualitative Analysis; Croft's Course of Practical Chemistry).

## PRACTICAL CHEMISTRY.

Classes will be formed for practical instruction in chemical manipulation, qualitative and quantitative analysis, examination of ores and mineral waters, chemical and pharmaceutical preparations, toxicological investigations, and the general operations of the laboratory.

This course is optional, and will be given at hours in the afternoon to suit the convenience of students.