

**ENGINEERING.**

Subjects of previous years continued.

Applied Mechanics :

Mechanics of Machinery.

Machine Design.

Thermodynamics and Theory of the Steam Engine.

Hydraulics.

Application of Principles to Practical Problems connected with the design, construction and testing of various Prime Motors and Machines.

**CHEMISTRY (APPLIED).**

Artificial Lighting.

Photography.

Explosives.

Preservation of Wood, Iron and Stone.

Metallurgy.

In addition to taking the course of instruction in the School and passing the requisite examinations, a candidate for the diploma in Mechanical Engineering will be required to present satisfactory evidence of having had at least one year's good practical experience in one of the principal occupations connected with mechanical work, such as machinist, pattern-maker, moulder, steam-engineer, etc. There is no restriction as to the place where the candidate may have gained such practical experience.

**III. DEPARTMENT OF ARCHITECTURE.**

This course is designed to afford the necessary preliminary training to students intending to become Architects.

1 YEAR.

**MATHEMATICS.**

Euclid, Algebra, Plane Trigonometry, Plane Analytical Geometry.