

EXPERIMENTAL PHYSICS.

Heat: Use of the Cathetometer, Dividing Engine, and Spherometer, Thermometry and Calorimetry.
Principle of Least Squares.

DRAWING.

Subjects of first year continued.
Coloring and Shading applied in construction drawing.
Descriptive Geometry in its application to solids bounded by curved surfaces. The various projections of the sphere.
Machines and Structures. (Drawings made from both copies and original notes.)

ENGINEERING.

Statics and Dynamics (Pure and Applied).
Theory of Mechanism.
Theory of Strength of Materials.
Materials of Construction.
Methods and Processes.

CHEMISTRY.

Theoretical Chemistry.
Practical do
Applied do
Combustion, Fuel and Furnaces.
Metallurgy of Iron and Steel.
Laboratory Practice.

SUBJECTS OF THIRD YEAR.

EXPERIMENTAL PHYSICS.

Acoustics.
Electrical Measurements and Testing.

DRAWING.

Subjects of previous years continued.
Descriptive Geometry:
Shades and Shadows.
Stone cutting.
Perspective Projection.

ORIGINAL DESIGNS.

Engines, Water Wheels, Shafting, Belting and Gearing,
Machines, etc.