II. YEAR.

Mathematics.

Differential and Integral Calculus.
Spherical Trigonometry.

Physics.

Hydrostatics.
Optics.
Electrical Measurements.

Experimental Physics.

Heat: Specific Heat. Latent Heat.
Expansion of Air. Air Thermometer.
Electricity and Magnetism.
Calculation of Elements of Terrestrial Magnetism.
Declination, Dip, and Horizonal Intensity.
Tangent Galvanometer.
Use of Voltameter.
Use of Deprez and Thomson Galvanometers.

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.
Strength and Elasticity of Materials.
Materials and Construction.
Methods and Processes.
Experimental work in Engineering Laboratory.

Chemistry.

Chemistry, with special reference to industrial applications.
Practical Chemistry.