

III YEAR.

DRAWING.

Subjects of previous years continued.

Descriptive Geometry.

Shades and Shadows.

Stone cutting.

Perspective Projection.

Original Designs—Bridges, Roofs, Floors, Arches, etc.

CHEMISTRY (APPLIED).

Thermo-Chemistry.

Combustion.

Fuel.

Explosives.

Artificial Lighting.

Photography.

ENGINEERING AND SURVEYING.

Statics and Dynamics (pure and applied).

Strength and Elasticity of Materials.

Theory of Construction.

Practical Designs.

Bridges, Roofs, Floors.

Arches, Retaining Walls.

Foundations, etc.

Thermodynamics and Theory of the Steam Engine.

Hydraulics, Sewerage, Water Supply.

Experimental work in Engineering Laboratory.

Levelling.

Profiles, Cross sections, Field work and Plotting.

Computation of quantities.

Mathematical Theory of Surveying Instruments.

Trigonometrical and Barometrical Levelling.

Geodesy (considering the earth a sphere).

Practical Astronomy (treated in the manner required for the

O.L.S. and D.L.S. Examinations).

Least Squares.