

III. Year.

DRAWING.

Subject of previous years continued.

Descriptive geometry.

Shades and shadows, stone cutting, perspective projection.

Original designs—bridges, roofs, floors, etc.

CHEMISTRY (APPLIED).

Explosives.

Artificial lighting.

Photography.

Industrial chemistry.

Sanitary chemistry.

Laboratory practice.

Wet assays.

ENGINEERING AND SURVEYING.

Statics and dynamics (pure and applied).

Strength and elasticity of materials.

Theory of construction.

Thermodynamics and theory of steam engine.

Hydraulics.

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.

Least Squares.

MINERALOGY AND GEOLOGY.

Economic geology.

Palæontology.

Ore deposits.

Blowpipe analysis and determinative mineralogy.

Metallurgy of gold, silver, nickel, copper, etc.

Mining and ore dressing.

Assaying.