

DRAWING.

Subjects of first year continued.

Coloring and shading applied to both topographical and construction drawing.

Descriptive Geometry in its application to solids bounded by curved surfaces. The various projections of the sphere, and principles of map construction.

Machines and structures. (Drawings made from both copies and original notes.)

CHEMISTRY.

Chemistry of the metals.

Thermo-chemistry.

Fuels.

Chemical manufacture.

Laboratory practice.

ENGINEERING AND SURVEYING.

Statics and dynamics (pure and applied).

Strength and elasticity of materials.

Experimental work in engineering laboratory.

Transit-theodolite surveying.

Levelling.

Railway location, curves, etc.

Mining surveying.

MINERALOGY AND GEOLOGY.

Elements of these sciences.

Blowpipe practice.

Determination of minerals.

Lithology.

METALLURGY.

Iron and steel.

PHYSICS.

Hydrostatics.

Optics.