

(V.) PRINCIPLES OF MECHANISM.

Principles of the Transmission of Motion without reference to force :—

Pitch Surfaces, Spur Wheels, Bevel Wheels, Skew-bevel Wheels,
Trains of Wheelwork, Teeth of Wheels, Cams, Cranks, Eccentrics,
Links, Bands and Pulleys, Hydraulic Connections, Frictional
Gearing, Link Motion for Slide Valves, etc., etc.

Text-Books and Books of Reference.—Rankine—Machinery and Millwork.

Camus—Teeth of Wheels.

MacCord—Slide Valve and Eccentric.

Goodeve—Elements of Mechanism.

Fee for Special Students, \$15.

The foregoing comprises the work to which the lectures and practical instruction will be principally confined. In addition, the Student will be required to obtain, by reading and observation during his course, a certain amount of information regarding the processes and details of Engineering Works, as below :

(VI.) ENGINEERING WORKS.

Roads and Bridges.

Canals and Harbours.

Water and Sewage Works.

Manufacture of Iron and Steel.

Manufacture of Mortars and Cements.

Workshop and Foundry Practice.

Mining Machinery and Processes.

Since information on these subjects is given in a plain and intelligible manner in the various treatises relating thereto, which can always be consulted by the Engineer when engaged in the actual practice of his profession, it has not been deemed expedient that much time should be given to them in the School.

(VII.) MATHEMATICS.

The Pure Mathematics included in this course will be taught in University College.

The Applied Mathematics will be taught partly in University College and partly in the School.