MECHANISM (*Goodeve ; and lectures aided by models.*)

STEAM ENGINE—General principles only taught by lecture.

Note—The whole of the above course is taught by lectures and personal instruction, aided by text books as far as possible. Shorter and easier proofs than those in the text books are given whenever practicable. Notes of the lectures are taken by the cadets and revised by the instructors.

The Obligatory Examination at the end of each Term in each Section includes all back work in that section.

The Voluntary Course for the 1st Class is less detailed than that for the other classes, to admit of some elasticity, regard being had to the previous success of each cadet.

The whole Voluntary Course is purposely framed so as to be longer than can probably be completed by any, except cadets of unusual mathematical ability. Thus any cadet who wishes to devote himself more particularly to mathematics is provided with ample employment. Such portions of the Course as may be neglected without affecting the continuity of the whole are omitted at the discretion of the Professor subject to the approval of the Commandant.

BOOKS OF REFERENCE.

RULES AND TABLES (*Rankine.*)
EUCLID (*Potts.*)
GEOMETRY (*Pierce.*)
ARITHMETIC AND BOOK KEEPING (*Hadden.*)
ALGEBRA (*Hadden, Colenso.*)
TRIGONOMETRY (*Hann, Snowball, Hamblin-Smith.*)
MENSURATION (*Baker, Moore, Todhunter.*)
CONIC SECTIONS (*Salmon.*)
HIGHER PLANE CURVES (*Salmon.*)
STATICS AND DYNAMICS (*Baker, Goodwin, Tomlinson.*)
PRACTICAL MECHANICS (*Twisden.*)
MECHANICS OF CONSTRUCTION (*Fenwick.*)
APPLIED MECHANICS (*Rankine, Bovey.*)
STRENGTH OF MATERIALS (*Barlow.*)
COURS DE MÉCHANIQUE (*Collingnon.*)
LE CONSTRUCTEUR (*Reuleaux.*)
GRAPHIC STATICS (*Karl von Ott, Clarke.*)
PRACTICAL GEOMETRY (*Clarke.*)
SYNOPSIS OF RESULTS IN PURE AND APP'D MATH'CS (*Carr.*)