HISTORY OF THE DEPARTMENT OF NAVAL ARCHITECTURE AND MARINE ENGINEERING

By C. H. PEABODY.

A course in Naval Architecture leading to the degree of bachelor of science was established as an option in Course II as early as 1891. From the beginning Course II has been a course in naval architecture and marine engineering and the development of the art and science of modern shipbuilding emphasizes this industry, which is now recognized in the title of the Department.

In 1889 the Department was assigned what appeared to be prodigious quarters in Engineering Building II, but immediately outgrew them and in 1904 it was transferred to the present location in Engineering Building C. In 1901 at the request of the Navy Department the Institute established a graduate course in Naval Architecture leading to the degree of Master of Science for officers designated for the corps of Naval Constructors and the first class was graduated in 1904. At the occasion of this first course Commander Win. Hovey, Royal Danish Navy, was appointed professor of design.

Prof. Walter S. Leland, XIII '96, was appointed assistant professor of naval architecture in 1906. In addition to the members of the teaching staff who are on the faculty, there are now two instructors and two assistants.

MARINE ENGINEERING

By H. A. EVERETT.

All that pertains to the propulsion of vessels through the water has been com-
monly accepted as the sphere of Marine Engineering, so-called, which broad expanse is the field of the course the ground actually covered in the ro-
mine work is limited, by the absence of the most promi-

nent features of ship resistance, propulsion, and propelling machinery.

Ship resistance, the elements composing it, present methods of estimating
these, and the early experiments of the founders which formed the foundation for
the theory, are taken up in detail. The various methods of propulsion as by ped-
dle, oar, sailing, steaming, and submarine propulsion are treated and the deter-
nation of power for given speeds by the Admiralty Coefficient, Law of Com-
parison, and Independent Estimate methods.

The work of the department has there-

ly been in progress several years and

advancing in a most promising manner to the degree of bachelor of science was

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