



The editor of this department had intended to publish a list of the senior theses from the laboratory departments of the University, together with a few words as to the scope of each, but this was found to be impracticable in the present status of affairs, some of the theses being at present largely incomplete with the final results and conclusions in doubt.

INDUSTRIAL ELECTRICITY

There are two nontechnical practical courses given in the department of Electrical and Mechanical Engineering, supplementary to each other, and valuable to any man in the University who desires a broad and well rounded education. The first is a three hour course in Prime Movers, the second a like course in Industrial Electricity. For giving a general knowledge of some of the more important phases of modern life these courses are unsurpassed by any courses of equal length in the University.

There is a considerable amount of laboratory as well as classroom work in each course. In the first semester the steam engine, steam turbines, boilers, gas engines and gas producers are studied. The student learns something of the principles governing the construction, selection, operation and repair of such machinery. In the laboratory he learns to operate an ordinary steam engine, to test its efficiency by means of brakes and indicator diagrams and also when it is used to drive electric generators. He uses a planimeter to integrate the indicator diagram, he tests and calibrates the steam gauge and writes up the records of his experiments.

In the second semester a general view of modern electrical machinery is gained together with some knowledge of its underlying