PART IV

DIPLOMAS IN PROFESSIONAL ENGINEERING

PROPOSED COURSES AND SUBJECT PRESCRIPTIONS

The Committee sets out in this part of its report the courses and special prescriptions for the diplomas in professional engineering recommended in Section 12. The prescriptions cover the three branches of engineering—civil, electrical, and mechanical—in which the greatest numbers of engineers are required. They have been drawn up after discussion with experts in the different subjects and have been carefully considered by sub-committees of the main Committee. If the recommendations for the institution of diplomas are accepted, further discussion of the details of the courses will be desirable in order to make sure that they are completely in line with New Zealand conditions. It may be necessary from time to time to establish diploma courses in other branches of engineering. The Committee has made no attempt to lay down any specific requirements for such branches, but it considers that the scheme outlined in this part of the report would be useful as a model for any such future courses.

I. Courses and Subjects

The figures in the following table indicate the *number of seventy-five minute periods weekly* which should be devoted to each subject in each year of the course. These periods include the times which should be devoted to practical work.

It will be noted that the *first and second year courses are identical in all three branches*, but that the civil and electrical courses differ slightly from the mechanical in the third year, and that in the fourth and fifth years all three courses differ greatly.

Civil, Electrical, and Mechanical Engineering

First year (part time)—	Day.	Evening.
Applied Mechanics I (*a*)	2	1
*Chemistry	..	2
Drawing (*a*)	1	..
Mathematics I (*a*)	2	..
*Physics (*a*)	1	1
	6	4

*Note.—Exemption granted if candidate has reached University Entrance standard.

Second year (part time)—	Day.	Evening.
Applied Mechanics I (*b*)	1	..
Drawing (*b*)	1	..
Mathematics I (*b*)	2	..
Physics (*b*)	2	2
Workshop Practice I	..	2
	6	4