

*A. Honours Mechanical—Fourth Professional Examination :—*

1. Engineering Mathematics IV. (One paper.)
2. Advanced Properties of Materials. (One paper.)

*B. Honours Electrical—Fourth Professional Examination :—*

1. Engineering Mathematics IV. (One paper.)
2. Electrical Engineering III. (One paper.)

*C. Honours Civil—Fourth Professional Examination :—*

1. Engineering Mathematics IV. (One paper.)
2. Engineering Geology. (One paper.)

*D. Honours Chemical—Fifth Professional Examination :—*

1. Engineering Mathematics IV. (One paper.)
2. Physical Chemistry, as for M.A. (One paper.)

## PRACTICAL WORK

### FACULTY REQUIREMENTS

Approval of the particular workshop or other place of practical work must be obtained from the Dean before the student commences work at the place. The total practical time can be worked out in a variety of shops if the student so desires and approval is obtained. Work done in the drawing office attached to a workshop, or in supervision of work, cannot be counted as workshop time.

This practical work, like laboratory work, is an essential part of all degree courses. The habit of close observations of—

1. Trade Practices,
2. Labour Conditions, Foremanship and Human Nature,
3. Details of Machinery and Equipment,—

should be formed very early in the student's career and will soon prove invaluable in later application of theoretical training, and eventually in the practice of the profession.

For each unbroken period of practical work in shop or approved practice the student should submit to the Dean a report on the work done and observed. This report will be retained by the school, and the student should prepare a duplicate if he wishes to keep a copy for himself. Each employer will be asked to submit a report on the student covering the period of his employment, stating the number of hours worked and the progress made. Time will be granted by the Faculty on the basis of the employer's report, and each 160 hours of work will be credited as one month, provided that no actual week's work will be credited as more than fifty hours.

### GOVERNMENT WORKSHOPS

A limited number of students can, by arrangement with Government Departments, carry out their practical time at approved Government workshops, and this experience is recommended. As in other workshops, students are expected to attend full working-hours and are paid for their work. All arrangements must be made through the Dean.

## APPENDIX 4—PROFESSIONAL SUBJECTS FOR THE BACHELOR OF ENGINEERING DEGREE AVAILABLE AT AUCKLAND UNIVERSITY COLLEGE SCHOOL OF ENGINEERING

(Extracted from the 1948 Prospectus of Auckland University College School of Engineering)

### A. B.E. MECHANICAL, CIVIL, ELECTRICAL AND CHEMICAL

Subjects limited to certain courses only are indicated by brackets.

*First Professional Course :—*

- Engineering Mathematics II.
- Surveying I.
- Descriptive Geometry,
- Applied Mechanics.
- Chemistry of Engineering Materials.
- \*Preliminary Heat Engines.
- \*Preliminary Engineering Drawing.
- \*Workshop.
- \*Workshop Technology (Chemical).
- \*Applied Electricity without laboratory (Electrical).

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\* No degree examination, but terms must be kept.