

XXXVII. *Third Professional Examination :—*

1. Mining II. (Two papers.)
2. Mine Surveying III. (One paper.)
3. Economic Geology. (One paper.)
4. Petrology. (One paper.)
5. Applied Electricity (One paper.) Assaying (certificate only).

G. Bachelor of Engineering—Metallurgical

First Professional Examination as for B.E. (Mining).

XXXVIII. *Second Professional Examination :—*

1. Ore Dressing. (One paper.)
2. Applied Mechanics relating to Mining. (Two papers.)
3. Heat Engines I. (One paper.)
4. Mechanical Drawing. (Two papers.)
5. Metallurgy I. (Two papers.)

XXXIX. *Third Professional Examination :—*

1. Metallurgy II. (Two papers.)
2. Economic Geology. (One paper.)
3. Assaying and Laboratory Work. (Two papers.)
4. Applied Electricity. (One paper.)

APPENDIX 3—PROFESSIONAL SUBJECTS FOR THE BACHELOR OF ENGINEERING DEGREE AVAILABLE AT THE NATIONAL SCHOOL OF ENGINEERING, CANTERBURY UNIVERSITY COLLEGE

(Extracted from the 1948 Prospectus of the National School:

PROFESSIONAL EXAMINATIONS

FIRST PROFESSIONAL EXAMINATION

Examination Subjects :—

1. Engineering Mathematics II. (One paper.)
2. Chemistry of Engineering Materials. (One paper.)
3. Surveying I. (One paper.)
4. Descriptive Geometry. (One paper.)
5. Applied Mechanics. (Two papers.)

Course Subjects.—Engineering Mathematics II; Chemistry of Engineering Materials; Surveying I, with Field Work; Descriptive Geometry; Applied Mechanics with Problems and Laboratory; Elementary Fluid Mechanics; Elementary Strength of Materials; Elementary Theory of Workshop Practice; Elementary Heat Engines; Applied Electricity; and Mechanical Drawing.

SECOND AND THIRD PROFESSIONAL EXAMINATIONS

A. Mechanical—Second Professional Examination :—

1. Engineering Mathematics III. (One paper.)
2. Heat Engines I. (One paper.)
3. Applied Electricity. (One paper.)
4. Strength of Materials in Construction. (One paper.)
5. Engineering Drawing and Design I. (Two papers.)

Course Subjects.—Engineering Mathematics III; Heat Engines I, with Problems; Applied Electricity Problems and Laboratory; Strength of Materials, with Problems and Laboratory; Properties of Materials; Engineering Drawing.

A. Mechanical—Third Professional Examination :—

1. Heat Engines II. (One paper.)
2. Hydraulics and Pneumatics. (One paper.)
3. Theory of Workshop Practice. (One paper.)
4. Engineering Drawing and Design II (Mech.). (Fifteen days' paper.)
5. One of—

Naval Architecture and Marine Engineering. (One paper.)
Works Management and Production Engineering. (One paper.)
Engineering Applied to Arts and Manufacture. (One paper.)
Automotive Engineering. (One paper.)
Aeronautical Engineering. (One paper.)

Course Subjects.—Heat Engines II, with Problems and Laboratory; Hydraulics, with Problems and Laboratory; Theory of Workshop Practice; Mechanical Drawing and Design; Advanced Applied Mechanics and one optional subject as above.