

SIXTH STAGE

(30 weeks part-time course)

	Hours per week for 30 weeks lec. lab./tut.
8.131 Structures	2 — 2
8.141 Engineering Computations	1 — 0
8.222 Engineering Materials	1 — 1
8.611 Civil Engineering	2 — 0
8.612 Civil Engineering	2 — 0
One 30-hour General Studies Elective	1 — 0
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	9 — 3

CIVIL ENGINEERING — CONVERSION COURSE

(A.S.T.C. Diploma to B.Sc. (Tech.) Degree)

Recent A.S.T.C. diploma holders in Civil Engineering may qualify for the degree of Bachelor of Science (Technology) by completing the following course of study. The programme outlined is that required of recent diplomates. Diplomates of many years standing may be required to take additional subjects.

FIRST STAGE

(30 weeks part-time course)

	Hours per week for 3 terms lec. lab./tut.
1.001/2 Physics I, Part 2	1½ — 1½
2.001/2 Chemistry I, Part 2	1½ — 1½
5.301 Engineering Mechanics	1½ — ¾
10.022/2 Mathematics	1½ — ½
One 30-hour General Studies Elective	1 — 0
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	6½ — 4½

SECOND STAGE

(30 weeks part-time course)

	Hours per week for 3 terms lec. lab./tut.
1.212 Physics II(T)	1½ — 1½
8.131 Structures	2 — 2
8.141 Engineering Computations	1 — 0
8.222 Engineering Materials (Soil Mechanics)*	2 — 0
8.521 Hydraulics	1 — 1
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	7½ — 4½

* First term only.

DEPARTMENT OF SURVEYING

The Department of Surveying offers a four-year full-time course and a seven-year part-time course, both leading to the degree of Bachelor of Surveying.

Surveying is broad in its scope. The academic training is first in the basic sciences of mathematics, physics and geology; a number of engineering subjects are studied; then surveying and its various branches, geodesy, astronomy and photogrammetry; and their application in trigonometric, engineering, cartographic and cadastral work. There is a correspondingly wide choice of types of surveying open to the graduate in surveying.

Surveying involves taking measurements in the field, and the course includes practical classes in which the theory studied in lectures is applied to actual surveys and acquaintance is made with surveying instruments. Survey camp must be attended for two weeks at the end of the second and third years of the course. In addition, students must gain practical experience under a surveyor for at least twenty-four weeks during vacations, preferably for eight weeks after the second year and for sixteen weeks after the third year.

For those wishing to become Registered Surveyors after graduation the degree confers exemption from all written examinations of the Board of Surveyors. Additional time must, however, be served under a Registered Surveyor, some exemption from this time being obtainable in respect of vacation experience, provided the Board gives prior recognition. For further information consult the Registrar of the Board.

SURVEYING—FULL-TIME COURSE

Bachelor of Surveying

FIRST YEAR

(30 weeks day course)

	Hours per week for 3 terms lec. tut., etc.
1.001 Physics I	3 — 3
5.001 Engineering I	3 — 3
8.801 Surveying I	2 — 4
10.001 Mathematics I	4 — 2
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	12 — 12

SECOND YEAR
(30 weeks day course)

	Hours per week for 3 terms lec. lab./tut.
1.212 Physics II(T)	2 — 2
8.711 Engineering for Surveyors	2½ — ½
8.802 Surveying II*	3 — 2½
8.841 Surveying Computations	1 — ½
10.022 Mathematics	3 — 2
10.361 Statistics	1½ — 0
25.531 Geology†	1½ — ½
26.501 English <i>or</i>	1 — ½
26.571 An Introduction to Modern Drama }	1 — ½
	15½ — 8½

THIRD YEAR**
(21 weeks day course)

	Hours per week for 21 weeks lec. tut., etc.
8.712S Engineering for Surveyors	2 — 0
8.803S Surveying III*	2 — 1½
8.821S Geodesy*	2½ — 2
8.831S Astronomy	2 — 1
8.842S Surveying Computations	1½ — 1
8.851S Photogrammetry	2 — 1½
8.881S Land Law, Valuation and Utilization†	3½ — 0
Two 30-hour General Studies Electives	3 — 0
	18½ — 7

* A two-week survey camp must be attended as part of this subject.

† Two one-day excursions are an essential part of the course.

** Terms 1 and 2 only.

FOURTH YEAR
(30 weeks day course)

	Hours per week for 3 terms lec. tut., etc.
6.811 Electronic Instrumentation for Surveyors	1 — 0
8.822 Geodesy	2 — 1½
8.832 Astronomy	1½ — 1
8.852 Photogrammetry	1 — 3½
8.882 Cadastral Surveying	1½ — ½
11.411 Town Planning*	1 — 1
25.533 Geophysics†	2 — 0
8.081 Thesis	3 — 0
General Studies, Advanced Elective	2 — 0
	15 — 7½

SURVEYING—PART-TIME COURSE

Bachelor of Surveying

FIRST STAGE
(30 weeks part-time course)

	Hours per week for 3 terms lec. lab./tut.
8.801 Surveying I	3 — 3
10.001 Mathematics I	4 — 2
	7 — 5

SECOND STAGE
(30 weeks part-time course)

	Hours per week for 3 terms lec. lab./tut.
1.001 Physics I	3 — 3
5.001 Engineering I	3 — 3
	6 — 6

* Lectures cease at end of Second Term.

† During Term III there will be only one hour of lectures per week. A one-day Geophysical excursion is an essential part of the subject.

THIRD STAGE
(30 weeks part-time course)

		Hours per week for 3 terms lec. lab./tut.
1.212	Physics II (T)	2 — 2
8.711	Engineering for Surveyors	2½ — ½
8.841	Surveying Computations	1 — ½
10.022/1	Mathematics II, Part I	1½ — 1
26.501	English	1 — ½
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		8 — 4½

FOURTH STAGE
(30 weeks part-time course)

		Hours per week for 3 terms lec. lab./tut.
8.802	Surveying II*	3 — 2½
10.022/2	Mathematics II, Part II	1½ — 1
10.361	Statistics	1½ — 0
25.531	Geology†	1½ — ½
26.501/2	English	1 — 0
	One 30-hour General Studies Elective ..	1 — 0
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		9½ — 4½

FIFTH STAGE
(30 weeks part-time course)

		Hours per week for 3 terms lec. lab./tut.
8.712	Engineering	1½ — 0
8.803	Surveying III**	1½ — 1
8.831	Astronomy	1½ — ½
8.842	Surveying Computations	1 — ½
8.881	Land Law, Valuation and Utilization†	2½ — 0
	One 30-hour General Studies Elective	1 — 0
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		9 — 2

* Students must attend a two-week survey camp.

† Two one-day excursions are an essential part of the course.

** A one-week survey camp must be attended as part of this subject.

SIXTH STAGE
(30 weeks part-time course)

		Hours per week for 3 terms lec. lab./tut.
6.811	Electronic Instrumentation for Surveyors ..	1 — 0
8.821	Geodesy*	1½ — 1½
8.851	Photogrammetry	1½ — 1
8.882	Cadastral Surveying	1½ — ½
25.533	Geophysics†	2 — 0
	General Studies Advanced Elective	2 — 0
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		9½ — 3

SEVENTH STAGE
(30 weeks part-time course)

		Hours per week for 3 terms lec. lab./tut.
8.822	Geodesy	2 — 1½
8.832	Astronomy	1½ — 1
8.852	Photogrammetry	1 — 3½
11.411	Town Planning**	1 — 1
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		5½ — 7

SCHOOL OF ELECTRICAL ENGINEERING

In preparation for a career in any branch of electrical engineering students must acquire a knowledge of the basic sciences of mathematics and physics. Students should realize that electrical engineering, perhaps more than most other branches of engineering, is closely linked with the pure sciences, and requires a scientific outlook and approach for a proper understanding of its problems.

The School offers a full-time course of four years' duration leading to the degree of Bachelor of Engineering (pass or honours), and a six-year part-time course for the degree of Bachelor of Science (Technology). This course may also be completed in three years of part-time and two years of full-time study. Special conversion courses are provided for holders of the A.S.T.C. diploma in Electrical or Radio Engineering.

The degrees of Bachelor of Engineering and Bachelor of Science (Technology) are recognized by the Institution of Electrical Engineers, England, as giving complete exemption from the examinations required for admission to the grade of Associate Member.

* A one-week survey camp must be attended as part of this subject.

† A one-day Geophysical excursion is an essential part of this subject.

** 20 weeks only. Lectures cease at end of Term II.