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 what will be 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 three terms lec. lab./tut. |
|------------------|--|---|
| 2.001/2 5.301 | Physics I, Part 2 Chemistry I, Part 2 Engineering Mechanics Mathematics* Social Science Elective | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |

^{*} From 1963 this subject will be replaced by 10.022/2 Mathematics, 2 hours per week.

SECOND STAGE

(30 weeks part-time course)

Hours per week

| 8.131 | Physics II(T) Structures | for three term lec. lab./tut. 1½— 1½ 2 — 2 |
|-------|---|---|
| 8.222 | Engineering Computations Engineering Materials (Soil Mechanics)* Hydraulics | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |

* First term only.

SURVEYING—FULL-TIME COURSE

FIRST YEAR

(30 weeks day course)

| | | Hours per week for 30 weeks |
|--------|---------------|--------------------------------|
| | | lec. lab./tut. |
| 1.001 | Physics I | 3 — 3 |
| 2.001 | Chemistry I | 3 — 3 |
| 5.001 | Engineering I | 3 3 |
| 10.001 | Mathematics I | 4 — 2 |
| | | |
| | | 1311 |

SECOND YEAR*

(24 weeks day course)

| | | Hours per week for 24 weeks |
|---------|------------------------------|---------------------------------|
| 1.2128 | Physics II(T) | lec. lab./tut. |
| 7.5318 | Geology | $2 - 2\frac{1}{2}$ |
| 8.421S | Engineering Surveying§ | 2 — 1 |
| 8.811S | Surveying \$ | $1\frac{1}{2}$ — $1\frac{1}{2}$ |
| 8.841S | Surveying Computations | 1 — 1 |
| 8.861S | Cartography | 1 — 1 |
| 8.871S | Cartography Land Utilisation | $1 - 1\frac{1}{2}$ |
| 10.0228 | Mothamotic | $1\frac{1}{2}$ $\frac{1}{2}$ |
| 10.361S | Statistics | 3 - 2 |
| 50.011S | Product 4 | $1\frac{1}{2}$ — 0 |
| 20.0110 | English | 3 — 0 |
| | | |
| | | 17 1 11 |
| | | |

^{*}Lectures cease at end of 4th week of 3rd term.
†Terms 1 and 2 (20 weeks) only.

THIRD YEAR* (24 weeks day course)

| 5.501S 8.812S 8.241S 8.821S 8.831S 8.842S 8.851S 8.611S 8.891S 51.011S | Surveying Soil Mechanics Geodesy§ | Hours per 10 weeks lec. lab./tut. $1 - 1\frac{1}{2}$ $1 - 2$ $1 - 1\frac{1}{4}$ $2 - 3$ $2 - 0$ $1\frac{1}{2} - 1\frac{1}{2}$ $1 - 1\frac{1}{2}$ $3 - 0$ $1 - 0$ $1\frac{1}{2} - 0$ | |
|---|-----------------------------------|---|---------|
| | | 16½—10¾ | 16 —103 |

^{*}Lectures cease at end of 4th week of third term. †Terms 1 and 2 (20 weeks) only.

[§]A two week survey camp must be attended in third term.

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FOURTH YEAR*—Pass Course (24 weeks day course)

| | (24 weeks day course) | Hours per week for 24 weeks lec. lab./tut. |
|--------|--------------------------------|--|
| 7.533 | Geophysics | $2\frac{1}{2}$ — 0 |
| 8.613S | Civil Engineering | $4\frac{1}{2}$ — 0 |
| 8,822S | Geodesy | 1 — 1 |
| 8.832S | Astronomy | 14 3 |
| 8.852S | Photogrammetry | 1 1 1 |
| 8.862S | Cartography | 2 0 |
| 8.872S | Land Valuation | 1 — 0 |
| 8.881S | Survey Laws and Regulations | $1\frac{1}{2}$ — 0 |
| 11.411 | Town Planning | 1 — 1 |
| | Minor Thesis | 3 0 |
| | Humanities, Advanced Elective† | 3 — 0 |
| | | 213-41 |

^{*}Lectures cease at end of 4th week of third term. †Terms 1 and 2 (20 weeks) only.

FOURTH YEAR—HONOURS COURSE (30 weeks day course)

| | (30 weeks day course) | Hours per week for 24 weeks* lec. lab./tut. |
|--------|--|---|
| 7.533 | Geophysics | $2\frac{1}{2}$ — 0 |
| 8.613S | Civil Engineering | $4\frac{1}{2}$ — 0 |
| 8.822S | Geodesy | 1 — 1 |
| 8.832S | Astronomy | 11 |
| 8.852S | Photogrammetry | $1 - 1\frac{1}{2}$ |
| 8.862S | Cartography | 2 — 0 |
| 8.872S | Land Valuation | 1 — 0 |
| 8.881S | Survey Laws and Regulations | $1\frac{1}{2}$ — 0 |
| 11.411 | Town Planning | 1 1 |
| | Humanities, Advanced Elective† Two Honours subjects are to be selected from Geodesy, Surveying and | 3 — 0 |
| | Photogrammetry | 3 — 0 |
| | | 213-41 |

[†] Terms 1 and 2 (20 weeks) only.
*In the last 6 weeks of third term 18 hours per week will be devoted to work on the thesis. In addition students will be required to attend nine hours per week such course work as may be prescribed.

Geodesy Surveying Photogrammetry

9 hours per week

[40]

SURVEYING — PART-TIME COURSE

FIRST STAGE

(30 weeks part-time course)

| 5.001/1 | Physics I, Part I Chemistry I, Part I Engineering I, Part I Mathematics, Part I | Hours per week for 30 weeks lec. lab./tut. 1½——————————————————————————————————— |
|---------|---|---|
| | | 6½— 5½ |
| | | |

SECOND STAGE

(30 weeks part-time course)

| 5.001/2 | Physics I, Part II Chemistry I, Part II Engineering I, Part II Mathematics I, Part II | Hours per week for 30 weeks lec. lab./tut. 1½——————————————————————————————————— |
|---------|---|---|
| | | 61-51 |

THIRD STAGE (30 weeks part-time course)

| | part time course) | |
|----------------------------------|---|---|
| 1.212 8.421 8.841 8.861 | Physics II(T) Engineering Surveying* Surveying Computations Cartography | Hours per week for 30 weeks lec. lab./tut. 1½——————————————————————————————————— |
| 10.022/1 | | 2/3— 1 1/3 |
| - | Mathematics II, Part I | 1 — 1 |
| 50.011/1 | English Language | 1 — 0 |
| | | 5 2/3 — 5 1/3 |

^{*}Saturday fieldwork additional. A survey camp of one week must be attended in the third term.

FOURTH STAGE

(30 weeks part-time course)

| | | for 30 weeks lec. lab./tut. |
|----------|-------------------------|-----------------------------|
| 5.501 | Fluid Mechanics | 1 — 1 |
| 7.531 | Geology | 14 4 |
| 8.811 | Surveying | 1 — 1 |
| 8.871 | Land Utilisation | 1 — ½ |
| 10.022/2 | Mathematics II, Part II | 1 1 |
| 10.361 | Statistics | 1 — 0 |
| 50.011/2 | English Literature | 1 — 0 |
| 51.011 | History or | 1 — 0 |
| 52.011 | Philosophy] | |
| | | 8 — 4 |
| | | |

A survey camp of one week must be attended in third term.

FIFTH STAGE

(30 weeks part-time course)

| | | Hours per 20 weeks | week for— 10 weeks |
|-------|-------------------------|---------------------------------|-----------------------|
| | | | lec. lab./tut. |
| 8.891 | Theory of Instruments | | 0 — 0 |
| 8.241 | Soil Mechanics | 1 — 1 | 1 — 1 |
| 8.821 | Geodesy | $1\frac{1}{4}$ — $2\frac{1}{4}$ | 11- 21 |
| 8.842 | Surveying Computations | 1 — ½ | 1 — ½ |
| | Cartography | 2 — 0 | 1 — 0 |
| 0.00 | Social Science Elective | 1 0 | 1 0 |
| | | 71 33 | 51 31 |
| | | | |

A survey camp of one week must be attended in third term.

SIXTH STAGE

(30 weeks part-time course)

| | | 20 weeks | |
|-------|------------------------------|----------------|----------------|
| | | lec. lab./tut. | lec. lab./tut. |
| 7.533 | Geophysics | 2 0 | 2 — 0 |
| 8.611 | Civil Engineering | 2 0 | 2 — 0 |
| | Surveying | 1 1 | 1 0 |
| | - | 11 1 | 11 11 |
| 8.831 | Astronomy | | |
| 8.851 | Photogrammetry | 11 13 | 11 11 |
| 0.051 | Humanities Advanced Elective | 2 — 0 | 2 - 0 |
| | | 93- 31 | 94- 34 |
| | | | |

A one week survey camp must be attended in third term.

SEVENTH STAGE

(30 weeks part-time course)

| 0.44 | | 20 weeks | week for— 10 weeks lec. lab./tut. |
|-------|---------------------------|--------------------|---|
| 8.613 | Civil Engineering | $3\frac{1}{2}$ — 0 | 3½ 0 |
| 8.822 | Geodesy | 11-0 | 1 1 — 0 |
| 8.832 | Astronomy | 11- 1 | 0 - 11 |
| 8.852 | Photogrammetry | | |
| | | 1 — 1 | ½ 1½ |
| | Land Valuation | 1 0 | 0 0 |
| 8.881 | survey Laws & Regulations | | 2 0 |
| | Town Planning | 1 1 | 1/2 1/2 |
| | | | |
| | | 10 — 2 | 8 — 3½ |

Note.—Part-time students are not required to complete a thesis since their professional experience is taken into consideration.

For Honours a part-time student must complete one full-time year 4.