

### 3.7 Introduction of the New Bachelor of Surveying Course:

The School of Surveying commenced the first two years of the new Bachelor of Surveying course in 1989. The course has been significantly modified to allow inclusion of more computing and programming components, a new approach to the skills acquisition and training aspects of the course, and a greater emphasis on private study and self-education. The accompanying diagram shows the structure of the new course.

Almost half of the first year is devoted to providing a strong mathematics and physics foundation. The rest is taken up with the study of the principles of surveying, engineering, geodetic science, and computing. The new first year subjects developed for the course were:

29.1711	Introduction to Surveying
29.2041	Survey Data Presentation
29.2221	Introduction to Geodetic Science
29.1111	Introduction to Computing
29.2111	Principles of Computer Processing

The second year continues these studies and introduces detailed aspects of surveying, computations, statistics, and project management. The new second year subjects developed for the course were:

29.3011	Surveying Instruments
29.4011	Surveying Techniques
29.3231	Geodetic Computations
29.4221	Geodetic Positioning 1 (Classical Techniques)
29.3111	Survey Computations
29.4111	Data Analysis & Computing 1
29.4721	Project Management 1

The third year of the course will be introduced in 1990, and while it continues the topics of surveying, computing, geodesy and project management, new subjects in photogrammetry, mapping and land studies are added.