

The provision made by the Board for establishing scholarships at the school is already making itself felt by increasing keenness among the senior students, and when the finances are able to bear it I hope that a scheme will be devised by which a brilliant student will be helped to visit the art centres of the Old World and obtain there a fuller knowledge which may be used on his return for the advancement of art in the Dominion.

EXTRACT FROM THE REPORT OF THE PROFESSOR IN CHARGE SCHOOL OF ENGINEERING, ELECTRICITY, AND TECHNICAL SCIENCE.

*Attendance.*—During the year 176 individual students attended lectures, the hour-attendances per week amounting to 1,120. Twenty-five students were taking courses for the University degree or for the Associateship of the school, and 11 College students took lectures in electricity and magnetism. Thirty-two lectures were delivered, and instruction was given in drawing and designing experimental work in the laboratories, and in field-work for 150 hours per week, the total instruction-hours per week amounting to 183.

The number of students who finally qualified in 1909 was above the average. Fourteen men obtained either the University degree or the Associateship of the School of Engineering, and have finished their courses here.

At the University examinations of 1908, 7 students passed the final examination for the degree of Bachelor of Engineering, 3 obtaining the degree in Mechanical and 4 in Electrical Engineering. In addition to these, 2 students passed the first part of the Second Examination, 2 the second part of the First Examination, 1 the first part of the First Examination for the degree, and 2 passed the Engineering Entrance Examination. At the Associateship examinations of 1909, 5 students passed the Final Examination for the Associateship in Mechanical Engineering, and 2 that for the Associateship in Civil Engineering. The passes in the subjects of the Associateship course taught in the School of Engineering were—In physics (B) (electricity and magnetism), 5; freehand mechanical drawing, 1; descriptive geometry (advanced), 1; steam-engine (elementary), 1; steam-engine (intermediate), 4; steam-engine (advanced), 6; applied mechanics, 5; mechanics of machinery, 5; hydraulics and pneumatics, 6; mechanical drawing (second year), 5; strength of materials (elementary), 6; strength of materials (intermediate), 6; strength of materials (advanced), 5; theory of workshop practice, 4; surveying (elementary), 1; principles of civil engineering, 2; electrical engineering (intermediate), 6. Associateship students taking subjects outside their regular course attended lectures, passed examinations, and obtained certificates in surveying (elementary), 2; surveying (advanced), 1; building-construction, 2; electrical engineering (elementary), 1.

*Evening Students.*—One hundred and forty-three certificates were awarded to students who attended evening lectures, and passed examinations in the following subjects :—

Free hand mechanical drawing, 21; descriptive geometry and setting-out work, 17; mechanical drawing, Section I. 13, Section II. 15, Section III. 4; steam-engine (elementary), 23; applied mechanics (elementary), 8; strength of materials (elementary), 8; steam-engine (advanced), 1; strength of materials (intermediate), 1; strength of materials (advanced), 2; theory of workshop practice, 2; surveying, elementary and advanced, 2; building-construction, 1; principles of civil engineering, 2; electricity (elementary), 11; electricity and magnetism (pass), 1; electrical engineering, Section I C.C., 8, Section II A.C., 2, intermediate, 1.

The number of appointments obtained by students during the year is satisfactory. Another professorship in engineering has been secured by an old student: Mr. R. S. Cree-Brown, who graduated here in 1904, and did not subsequently attend any other institution, has received the appointment of Professor of Engineering at the Poona College of Science. Amongst the other appointments have been—Lecturer in Electrical Engineering at the School of Mines, Auckland University College; First Assistant Engineer, Drainage Board, Christchurch; Chief Engineer, Pumping-station, Christchurch Water-supply; Draftsman, Auckland Harbour Board; Railway Surveyor, Public Works Department; Demonstrator, School of Engineering; Lecturer in Mechanical Engineering, Westport Technical School; Manager Electrical Department, Messrs. Scott Bros.; Lecturer in Machine-construction and Mechanical Drawing, Technical College, Christchurch; Engineer and Technical Assistant to Patent Agents, London; Assistant Engineer, Drainage Board, Christchurch; and Assistant Engineer.

The tests made during the year included—Complete test of a suction-gas centrifugal pumping plant recently installed at Heathcote for the water-supply of Lyttelton; steel bars for ferro-concrete work in Auckland; steel bars for Wellington; cement and stones for Dunedin and Auckland; timbers for North Island firms; rails for New Zealand Government.

The equipment of the hydraulics laboratory was proceeded with, and practically completed by the installation of a low-lift centrifugal pump of 2,000-gallons-per-minute capacity, driven by a 35-horse-power electric motor; a 20 horse-power experimental Pelton wheel with a specially designed generator as brake, the current from this generator being utilized to assist in driving the supply pumps; a low-fall Thomson-type turbine of about 8-horse power; a low-pressure supply range; a high-pressure supply range with artificial head; a venturimeter; a cast-iron roof tank of 11,400 gallons capacity; together with measuring-tanks, weirs, and nozzles, pressure and velocity gauges, and other necessary apparatus. A special tilting-tank arranged for investigations into the flow of water-races and rivers and over dams and through pipes and channels has been erected in the centre of the laboratory. This and a large amount of experimental gear was constructed locally, and a most satisfactory job has been made. This equipment being of a size comparable with that with which the engineer has to deal in