

The certificates of all the divisions of the school shall be signed by the Chancellor or Vice-Chancellor of the University, and by the Chairman of the Professorial Board, and shall be sealed with the seal of the University.

The following are the courses of study prescribed for the respective divisions :—

I. ASSOCIATESHIP.—MINING DIVISION.

<i>First Year's Lectures.</i>				Hours.
Mathematics	...	...	...	5
Mining Geology	...	...	...	3
Physical Geology	...	...	...	1
Theoretical Chemistry and Chemical Technology	...	...	...	5
Drawing	...	...	...	2
Total hours per week				16

<i>Second Year's Lectures.</i>				Hours.
Mathematics and Theoretical Mechanics	...	...	...	5
Mining	...	...	...	3
Physics	...	...	...	3
Mine and Land Surveying	...	...	...	3
Mineralogy	...	...	...	4
Drawing	...	...	...	2
Total hours per week				20

<i>Third Year's Lectures.</i>				Hours.
Mining	...	...	...	3
Petrography	...	...	...	2
Assaying	...	...	...	3
Use of the Blowpipe, and Determinative Mineralogy	...	...	...	2
Applied Mechanics	...	...	...	3
Drawing	...	...	...	2
Total hours per week for first 3 months				15
Laboratory Practice for 3 months				5
Total hours per week for second 3 months				20

II. ASSOCIATESHIP.—METALLURGICAL DIVISION.

<i>First Year's Lectures.</i>				Hours.
Mathematics	...	...	...	5
Physical Geology	...	...	...	1
Theoretical Chemistry and Chemical Technology	...	...	...	5
Drawing	...	...	...	4
Total hours per week				15

<i>Second Year's Lectures.</i>				Hours.
Mathematics and Theoretical Mechanics	...	...	...	5
Metallurgy	...	...	...	3
Physics	...	...	...	3
Analytical Chemistry and Laboratory Practice	...	...	...	10
Mineralogy	...	...	...	4
Total hours per week				25

<i>Third Year's Lectures.</i>				Hours.
Metallurgy	...	...	...	3
Assaying	...	...	...	3
Use of the Blowpipe, and Determinative Mineralogy	...	...	...	2
Applied Mechanics	...	...	...	3
Mechanical Preparation of Ores, last part of mining lectures (for about two months)	...	...	...	3
Drawing	...	...	...	2
Laboratory Practice	...	...	...	10
Total hours per week				23 to 26

III. ASSOCIATESHIP.—GEOLOGICAL DIVISION.

<i>First Year's Lectures.</i>				Hours.
Mathematics	...	...	...	5
Mining Geology	...	...	...	3
Physical Geology	...	...	...	1
Theoretical Chemistry and Chemical Technology	...	...	...	5
Drawing	...	...	...	2
Total hours per week				16

<i>Second Year's Lectures.</i>				Hours.
Mathematics and Theoretical Mathematics	...	...	...	5
Physics	...	...	...	3
Mine and Land Surveying	...	...	...	3
Mineralogy	...	...	...	4
Natural History	...	...	...	5
Total hours per week				20

<i>Third Year's Lectures.</i>				Hours.
Petrography	...	...	...	2
Use of the Blowpipe, and Determinative Mineralogy	...	...	...	2
Analytical Chemistry	...	...	...	5
Palæontology	...	...	...	3
Drawing	...	...	...	4
Geological Field Practice	...	...	...	...
Total hours per week				16

IV. CERTIFICATE OF MINING SURVEYOR.

<i>First Year's Lectures.</i>				Hours.
Mathematics	...	...	...	5
Mining Geology	...	...	...	3
Physical Geology	...	...	...	1
Theoretical Chemistry and Chemical Technology	...	...	...	5
Drawing	...	...	...	4
Total hours per week				18

<i>Second Year's Lectures.</i>				Hours.
Mathematics and Theoretical Mechanics	...	...	...	5
Mine and Land Surveying	...	...	...	3
Physics	...	...	...	3
Mineralogy	...	...	...	4
Drawing	...	...	...	4
Surveying Practice	...	...	...	...
Total hours per week				19

V. CERTIFICATE OF METALLURGICAL CHEMIST AND ASSAYER.

<i>First Year's Lectures.</i>				Hours.
Mathematics	...	...	...	5
Physical Geology	...	...	...	1
Theoretical Chemistry and Chemical Technology	...	...	...	5
Analytical Chemistry	...	...	...	5
Metallurgy	...	...	...	3
Drawing	...	...	...	2
Total hours per week				21

<i>Second Year's Lectures.</i>				Hours.
Assaying	...	...	...	3
Metallurgy	...	...	...	3
Mineralogy	...	...	...	4
Use of the Blowpipe, and Determinative Mineralogy	...	...	...	2
Physics	...	...	...	3
Analytical Chemistry and Laboratory Practice	...	...	...	10
Total hours per week				25

Sub-Enclosure 3 to Enclosure 2 in No. 21.

SYNOPSIS OF THE CLASSES IN THE SCHOOL OF MINES.

MATHEMATICS.—Professor Shand.

First Year.—Euclid: Six books, with geometrical exercises. Algebra: To the binomial theorem. Trigonometry: To the solution of plane triangles, including the use of logarithms. Text-books: Todhunter's Euclid, Colenso's Algebra, and Colenso's Trigonometry.

Second Year.—Algebra and trigonometry: An extended course. Elementary mechanics and hydrostatics. Text-books: Todhunter's Algebra, Todhunter's Trigonometry, Goodwin's Statics, Goodwin's Dynamics, and Besant's Hydrostatics.