ENGINEERING EDUCATION IN THE BRITISH DOMINIONS

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649346585

Engineering Education in the British Dominions by Various

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IN THE

BRITISH DOMINIONS.

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COMPILED FROM OFFICIAL SOURCES,

WITH REGULATIONS OF

The Enstitution of Civil Engineers

AS TO THE ADMISSION OF STUDENTS.

LONDON:

Bublished by the Eastitution, 25, GREAT GEORGE STREET, WESTMINSTER, S.W. [THIBHRAMS, "INFINITION, LONDOR." TALEPHORE, "2051."] 1891.

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In 1870 The Council of The Institution of Civil Engineers issued a volume entitled "The Education and Status of Civil Engineers in the United Kingdom and in Foreign Countries;" but since that time, this subject of Engineering Education has acquired much increased importance in consequence of the great success and large extension of the Student Class, and the consequent larger demand for preliminary education for the profession.

The Council felt it their duty to draw up, with much care and consideration, a set of Regulations for the Admission of persons into this class, and as these have been found, by experience, to work well, they are now republished for general circulation.

The Regulations have expressly had reference to a preliminary course of education. The work of 1870 contained information as to the Educational Institutions in Great Britain and Ireland, where instruction was given bearing on the profession of Civil Engineering; but during the time that has elapsed since that date, the number of these Institutions has so much increased that it is now necessary to issue an amended list, which is given in Appendix A. Further details may be obtained by applying to the Institutions themselves.

In Appendix B are added some remarks on the general subject, which are considered worthy of attention.

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Students		•• •		
Schedule No. IEd selves imply su				hem-
Schedule No. II.—I Examinations r	List of Public	Examin	ing Bodies	and

APPENDIX A.

PARTICULARS OF EDUCATIONAL INSTITUTIONS IN THE BRITISH DOMINIONS WHERE INSTRUCTION IS GIVEN BEARING ON THE PROFESSION OF CIVIL ENGINEERING.

METROPOLITAN.

University College, London	• •			••	9
King's College, London				19474	12
The Royal College of Science,	and	the	Royal	School	
of Mines				0.000	16
The City and Guilds of London I	nstit	ute			17
Central Institution, South	Ken	singto	on	6.56 B	19
The Technical College, Fir	nsbur	y		1923	23
The Royal Indian Engineering	Coll	lege, (Cooper's	Hill,	
Staines			· · ·		24
The Royal Naval College, Greenv	vich				30
Crystal Palace School of Practical		ineeri	ing		31
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PROVINCIAL, ENGLAND.

University of Oxford	100				32
University of Cambridge			• •		33
Owens College, Manchester					35
Manchester Technical School					37
University College, Liverpool					37
Yorkshire College, Leeds					39
Bradford Technical College		200			40
Durham College of Science, New	castle	-on-Ty			40
Mason Science College, Birmingh					41
University College, Bristol					41
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Firth College, Sheffield	100	3+34			43
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University	College	of	South	Wales,	Cardiff,	Monme	outh-	675
shire	••	••	• •	••	••	••	••	45

SCOTLAND.

University of Glasgow					7.4	40
University of Edinburgh		2.2	1.0			48
Heriot-Watt College, Edin	burgh					50
The Glasgow and West of	Scotla		chnical	College		51
University College, Dunde	ee					52

IRELAND.

Dublin University (Trinit	y Col	lege)	0.000	4.41		54
The Royal College of Scie			nd, Dub	lin	1973	55
Queen's College, Cork		• •	0.00			56
Queen's College, Belfast						57
Queen's College, Galway						57

INDIA.

University of Bombay		100	1000			57
University of Calcutta	6325			••		59
The Thomason Civi	l Engir	eering	College	, Roork	ee	59
The Government Er	igineer	ing Col	lege, Sí	bpur	10404	61
The University of Madra						61

CANADA.

University of Toronto						61
McGill College and Univ	versity	, Montr	eal	1010		63
The University of King'				Jova Sc	otia	64

AUSTRALIA.

University of Sydney	2.4				 64
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Opinions and Suggestions as to Engineering Education . . 66

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REGULATIONS OF THE COUNCIL AS TO THE PRELIMINABY EDUCATION OF CANDIDATES SEEKING ADMISSION AS STUDENTS.

1. On and after June 1, 1889, no person shall be admitted as a Student unless he shall produce evidence of a competent knowledge of the subjects of General Education specified in the following List :—

(1) English Grammar and Composition;

(2) Elements of Mathematics, comprising (a) Arithmetic, including Vulgar and Decimal Fractions, (b) Algebra, including Quadratic Equations, with one unknown quantity, (c) Geometry, including the first three books of Euclid, with easy questions on the subject-matter of the same;

(3) Elementary Mechanics of Solids and Fluids, comprising the Elements of Statics, Dynamics, and Hydrostatics.

(4) Two of the following optional subjects :---

(a) Latin, (b) Greek, (c) French, German, Italian, or any other Modern Language, (d) Logic, (e) Chemistry, Geology, Botany, or any other branch of Physical Science.

2. The evidence required in the above regulation shall be furnished by Certificates to show either—

(a) That the Candidate has obtained any one of the Educational Distinctions named in Schedule No. I.; or

(8) That the Candidate has attended classes in any of the Public Educational Establishments, mentioned in Appendix A, on any of the qualifying subjects, and has acquired a competent knowledge of the same; or

(c) That the Candidate has passed one or more examinations, in any of the qualifying subjects, by any of the recognized Public Examining Bodies mentioned in Schedule No. II.

The Certificates mentioned in (B) and (o) must, in the aggregate, include all the qualifying subjects named in Regulation No. I.

3. The Council may from time to time extend, alter, or otherwise amend the Schedules Nos. I. and II., and Appendix A.

4. The Council reserve to themselves power to accept special qualifications of practical work in lieu of certain educational qualifications; or to waive any of the abovenamed requirements under special circumstances as they may think advisable.

REGULATIONS AS TO THE ADMISSION OF STUDENTS.

SCHEDULE No. I.

EDUCATIONAL DISTINCTIONS WHICH OF THEMSELVES IMPLY SUFFICIENT QUALIFICATION.

Any degree in Arts, or Science, or Engineering, in any University in the British Empire.

Britsh Empire. Matriculation in the University of London. Matriculation in the Engineering Department of King's College, London. Matriculation in the Engineering Department of University College, London. Matriculation in the Central Institution of the City and Guilds of London Technical Institute. Election as a "Whitworth Scholar."

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SCHEDULE No. II.

•

LIST OF PUBLIC EXAMINING BODIES AND EXAMINATIONS RECOGNIZED BY THE COUNCIL.

Responsions Senior and Junior Local.

UNIVERSITY OF CAMBRIDGE :---Previous Examination. Higher, Senior and Junior Local.

OXFORD AND CAMBBIDGE SCHOOLS' EXAMINATION BOARD :----Higher and Lower Certificates.

VICTOBIA UNIVERSITY :---Preliminary Examination.

UNIVERSITY OF EDINBURGH :-Preliminary Examination for Graduation in Science. Senior and Junior LocaL

UNIVERSITY OF ABERDEEN :-Senior and Junior Local.

UNIVERSITY OF GLASGOW :-Senior and Junior Local.

UNIVERSITY OF ST. ANDREW'S :-

Senior and Junior Local. Scotch Education Department Leaving Certificate.

UNIVERSITY OF DUBLES :--

General Examination at end of Senior Freshman year. Public Entrance Examination.

REGULATIONS AS TO THE ADMISSION OF STUDENTS.

THE SCIENCE AND ART DEPARTMENT'S EXAMINATIONS.

INDIAN AND COLONIAL UNIVERSITIES AND COLLEGES.

UNIVERSITY OF BISHOF'S COLLEGE, MONTBRAL :- Matriculation Examination.

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