CIVIL ENGINEERING TECHNOLOGY: NATIONAL DIPLOMA CURRICULUM TABLE

Below are the minimum requirements from the institution's regulators. However, the department has introduced 5 additional local content courses to augment the provision of the national Board for Technical Education (NBTE).

YEAR ONE

SEMESTER ONE

Course Code	Course Title	L	T	P	CU	CH	Pre-requisite
SUG 101	Basic Principles in Surveying I	1	0	3	2	4	'O' Level Maths. & Physics
MEC 101	Technical Drawing	1	0	3	2	4	-
CEC 101	Structural Mechanics	1	1	0	2	2	'O' Level Physics
CEC 103	Workshop Technology I	0	0	4	1	4	& Maths
CEC 105	Civil Engineering Construction I	2	0	2	3	4	-
MTH 112	Algebra and Elementary Trigonometry	2	0	0	2	2	-
CEC 107	Introduction to Fluid Mechanics	1	0	2	2	3	
STA 111	Introduction to Statistics	2	0	0	2	2	'O' level Math Physics
GNS 101	Use of English I	2	0	0	2	2	'O' Level Maths
GNS 111	Citizenship Education I	2	0	0	2	2	
GNS 221	Physical and Health Education	0	0	1	1	1	'O' Level English
	TOTAL	14	1	15	21	30	

SEMESTER TWO

Course Code	Course Title	L	T	P	CU	CH	Pre-requisite
SUG 102	Basic Principles in Surveying II	1	0	3	3	4	SUG 101
MEC 102	Descriptive Geometry	1	0	2	2	3	MEC 101
CEC 102	Introductory Hydrology	1	0	2	2	3	CEC 107
CEC 104	Science and Properties of Materials	2	0	3	3	5	-
CEC 106	Strength of Materials	2	1	1	3	4	CEC 101
CEC 108	Engineering Geology and Basic Soil Mechanics	2	0	3	3	5	-
CEC 110	Civil Engineering Construction II	2	0	2	3	4	CEC 105
MTH 211	Calculus	2	0	0	2	2	MTH 111
GNS 201	Use of English II	2	0	0	2	2	GNS 101
SDV 210	Entrepreneurship Development I	2	0	1	2	2	-
	TOTAL	17	1	17	24	35	

YEAR TWO

SEMESTER ONE

Course Code	Course Title	L	T	P	CU	CH	Pre-requisite
SUG 208	Engineering Survey I	2	0	3	3	5	SUG 102
CEC 201	Hydraulics and Hydrology	2	0	3	3	5	CEC 102
CEC 203	Workshop Technology II	0	0	4	1	4	CEC 103
CEC 205	Theory of Structures I	2	1	0	3	3	CEC 106
CEC 207	Hydrogeology	1	0	1	1	1	CEC 102
CEC 209	Civil Engineering Drawing I	1	0	3	2	2	MEC 102
CEC 211	Civil Engineering Construction III	2	0	2	3	4	CEC 110
MTH 122	Trigonometry and Analytical Geometry	2	0	0	2	2	MATH 112
SDV 211	Entrepreneurship development II	1	0	2	2	3	-
ICT 201	Introduction to Computing	2	0	2	3	4	-
	TOTAL	15	1	20	22	34	

SEMESTER TWO

Course Code	Course Title	L	T	P	CU	CH	Pre-requisite
CEC 202	Water Supply and Sanitary Engineering	2	0	3	3	5	CEC 202 & 107
CEC 204	Introduction to Highway Engineering	2	0	1	2	2	CEC108 & SUG 208
CEC 206	Introduction to Structural Design	2	0	0	2	2	CEC 205
CEC 208	Soil Science and Irrigation Engineering	1	0	3	2	4	CEC 108 & 207
CEC 210	Civil Engineering Drawing II	1	0	3	2	4	CEC 209
CEC 212	Soil Mechanics I	2	0	3	3	5	CEC 108
CEC 214	Engineering Measurement & Evaluation	2	0	0	2	2	MTH 122
GIT 201	Elements of Geo-informatics	1	0	3	2	4	CEC 209
ICT 102	Introduction to Programming Using Q-Basic	2	0	2	3	4	ICT 101
CEC 216	Technical Report writing	1	0	1	1	2	-
CEC 242	Construction Management	2	0	0	2	2	-
	TOTAL	18	0	19	24	36	