

Table 1. Programme Descriptor

Code:DCE		TRADE DIPLOMA IN CIVIL ENGINEERING	
Year 1			
Trimester 1 – Stage 1		Trimester 2 – Stage 2	
Unit Code	Unit Title	Unit Code	Unit Title
COM401	Technical Communication	CHM406	Engineering Chemistry
EEE450	Electrical & Electronic Engineering	CIN445	Introduction to Computer Programming
ETH 401	Introduction to Ethics, Values & Governance	MEC451	Engineering Mechanics Workshop Practice
MEC450	Engineering Graphics	MEC452	Occupational Health & Safety
MTH405	Engineering Mathematics 1	OHS445	Engineering Mathematics 2
PHY416	Engineering Physics	MTH504	Engineering Chemistry Laboratory
MEC470	Engineering Graphics Laboratory	CHM470	Introduction to Computer Programming Laboratory
EEE470	Electrical & Electronic Engineering Laboratory	CIN470	Engineering Mechanics Laboratory
PHY403	Engineering Physics Laboratory	MEC472	
Year 1			
Trimester 3 – Stage 3			
Unit Code	Unit Title		
DEN400	Civil Engineering Technology		
DEN401	Computer Aided Design I Materials for Construction Construction		
DEN402	Technology Theory I		
DEN404	Land Surveying Theory		
DEN406	Materials for Construction Laboratory		
DEN403	Construction Technology Practice I		
DEN405	Land Surveying Practice		
DEN407			
Year 2			
Trimester 1 – Stage 4		Trimester 2 – Stage 5	
Unit Code	Unit Title		
DEN500	Building Services	DCE508	Civil Engineering Contract Management
DCE501	Hydraulics & Fluid Mechanics 1	DCE509	Civil Engineering Design Project
DCE503	Soil Mechanics	DCE510	Design of Concrete Structures
DCE505	Theory of Structures	DCE511	Town and Country Planning
DCE507	Design of Timber Structures	DCE513	Measurement of Civil Works
DCE502	Hydraulics & Fluid Mechanics 1 Laboratory	DCE514	Design of Steel Structures
DCE504	Soil Mechanics Laboratory		
DCE506	Theory of Structures Laboratory		

There is a considerable degree of flexibility tolerated for students who wish to break their studies, have to do supplementary assessment or repeat the units. The only stipulation being

- Prerequisites must be satisfied before proceeding to advanced units and
- Supplementary assessments and repeats can only be done when the unit is next offered officially.

The final outcome for graduation must be the accumulation of 40 appropriate units plus the mandatory 6 months industrial attachment. The student should submit the Work Experience Record Book to the school duly signed by the employer.

Table 2. Programme Structure

Period	Unit Code	Unit Title	Lecture Hours	Tutorial Hours	Labs & Studios	Total Contact Hours	Total SDLH ours	Total learning Hours	Credit Points
Year 1, Trimester 1- Stage 1	COM401	Technical Communication	2	1		36	39	75	5
	EEE450	Electrical & Electronic Engineering	4	2		72	48	120	8
	ETH401	Introduction to Ethics, Values & Governance	2	2		48	27	75	5
	MEC450	Engineering Graphics	2			24	41	65	4
	MTH405	Engineering Mathematics 1	4	2		72	78	150	10
	PHY416	Engineering Physics	4	2		72	48	120	8
	EEE470	Electrical & Electronic Engineering Laboratory			2	24	6	30	2
	MEC470	Engineering Graphics Laboratory			3	36	54	90	6
	PHY403	Engineering Physics Laboratory			2	24	6	30	2
		Subtotal							
Year 1, Trimester 2- Stage 2	CHM406	Engineering Chemistry	4	2		72	48	120	8
	CIN445	Introduction to Computer Programming	4	2		72	48	120	8
	MEC451	Engineering Mechanics	4	1		60	60	120	8
	MEC452	Workshop Practice	1		4	60	15	75	5
	OHS445	Occupational Health & Safety	3	1		48	27	75	5
	MTH504	Engineering Mathematics 2	4	2		72	48	150	10
	CHM470	Engineering Chemistry Laboratory			2	24	6	30	2
	CIN470	Introduction to Computer Programming Laboratory			2	24	6	30	2
	MEC472	Engineering Mechanics Laboratory			2	24	6	30	2
		Subtotal							
Year 1, Trimester 3- Stage 3	DEN400	Civil Engineering Technology	4	1		60	95	155	10
	DEN401	Computer Aided Design I		1	4	60	96	156	10
	DEN402	Materials for Construction	3	1		48	55	103	7
	DEN404	Construction Technology Theory I	3	1		48	55	103	7
	DEN406	Land Surveying Theory	3	1		48	55	103	7
	DEN403	Materials for Construction Laboratory			3	36	10	46	3
	DEN405	Construction Technology Practice I			3	36	10	46	3
	DEN407	Land Surveying Practice			3	36	16	52	3
		Subtotal	13	5	13	372	391	764	50
Year 2, Trimester 1- Stage 4	DEN500	Building Services	4	1		60	84	144	10
	DCE501	Hydraulics & Fluid Mechanics 1	4	1		60	50	110	7
	DCE503	Soil Mechanics	4	1		60	50	110	7
	DCE505	Theory of Structures	4	1		60	50	110	7
	DCE507	Design of Timber Structures	4	1		60	90	15	10
	DCE502	Hydraulics & Fluid Mechanics 1 Laboratory			2	24	21	45	3
	DCE504	Soil Mechanics Laboratory			2	24	22	46	3
	DCE506	Theory of Structures Laboratory			2	24	21	45	3
		Subtotal	18	5	8	372	369	741	50
Year 2 Trimester 2 – Stage 5	DCE508	Civil Engineering Contract Management	4	1		60	60	120	8
	DCE509	Civil Engineering Design Project	4	1		60	60	120	8
	DCE510	Design of Concrete Structures	4	1		60	60	120	8
	DCE511	Town and Country Planning	4	1		60	95	155	10
	DCE513	Measurement of Civil Works	4	1		60	60	120	8
	DCE514	Design of Steel Structures	4	1		60	60	120	8
		Subtotal	24	6	3	360	395	755	50

Attachment (6 months relevant on-the job – training in any Field of Civil Engineering from reputable Engineering firm in Fiji or overseas .

Table 3 Pre-requisite for every unit

Unit Code	Unit Title	Pre – requisite
Year 1		
Trimester 1- Stage 1		
COM401	Technical Communication	Form 6 Pass
EEE450	Electrical & Electronic Engineering	Form 6 Pass
ETH401	Introduction to Ethics, Values & Governance	Form 6 Pass
MEC450	Engineering Graphics	Form 6 Pass
MTH405	Engineering Mathematics 1	Form 6 Pass
PHY416	Engineering Physics	Form 6 Pass
EEE470	Electrical & Electronic Engineering Laboratory	Form 6 Pass
MEC470	Engineering Graphics Laboratory	Form 6 Pass
PHY403	Engineering Physics Laboratory	Form 6 Pass
Trimester 2 – Stage 2		
CHM406	Engineering Chemistry	Form 6 Pass
CIN445	Introduction to Computer Programming	MEC450
MEC451	Engineering Mechanics	PHY416
MEC452	Workshop Practice	EEE450
OHS445	Occupational Health & Safety	Form 6 Pass
MTH504	Engineering Mathematics 2	MTH405
CHM470	Engineering Chemistry Laboratory	Form 6 Pass
CIN470	Introduction to Computer Programming Laboratory	MEC470
MEC472	Engineering Mechanics Laboratory	PHY403
Trimester 3 – Stage 3		
DEN400	Civil Engineering Technology	MEC452
DEN401	Computer Aided Design I	MEC470
DEN402	Materials for Construction	CHM406
DEN404	Construction Technology Theory I	PHY416
DEN406	Land Surveying Theory	MTH504
DEN403	Materials for Construction Laboratory	CHM470
DEN405	Construction Technology Practice I	PHY403
DEN407	Land Surveying Practice	MTH504
Year 2		
Trimester 1 – Stage 4		
DEN500	Building Services	DEN400
DCE501	Hydraulics & Fluid Mechanics 1	PHY416
DCE503	Soil Mechanics	PHY416
DCE505	Theory of Structures	MEC451
DCE507	Design of Timber Structures	MEC451
DCE502	Hydraulics & Fluid Mechanics 1 Laboratory	PHY403
DCE504	Soil Mechanics Laboratory	PHY403
DCE506	Theory of Structures Laboratory	MEC470
Trimester 2 – Stage 5		
DCE508	Civil Engineering Contract Management	DEN400
DCE509	Civil Engineering Design Project	DCE507
DCE510	Design of Concrete Structures	MEC451
DCE511	Town and Country Planning	DCE507
DCE513	Measurement of Civil Works	DCE507
DCE514	Design of Steel Structures	MEC451