## **CONSTRUCTION ENGINEERING DIVISION** SBLM | FOBE | AY2020/21 CED BOOKLIST (REQUIRED & RECOMMENDED)

Students are NOT required to purchase these books. They are required to

source them via online means and/or the use of library resources.

	CODE NAME OF MODULE			BOO	KS	
DIPLOMA:	S (CONSTRUC	TION MANAGEMENT/STRUCTURAL ENGINEER	ING) LEVEL 1	REQUIRED	RECOMMENDED	
	COE1009	Workshop	1			
	COE1004	Construction Drawing	3	Miller, Edward J. and Fauseet's, James G.	Jefferis, Alan and Madsen, David;	
				Architectural Drawing and Light Construction.;	Architectural Drafting and Design	
				Prentice Hall Inc. New Jersey		
					Ezeji, S.C. and Nwoke, G.I.	
					Technical Drawing 3, Building Drawing	
					Longman Int.	
	COE1010	Introduction to Material Science	2			
	COT1012	Materials Laboratory 1	2	UTECH/CED Materials Laboratory Manual	Engineerig Properties of Soils and their	
	0011012	Waterials Eaboratory 1		OTEOTIVOED Materials Eaboratory Mariaar	Measurement, Joseph Bowles	
					lividusarement, desepti bewies	
					American Society for Testing and Materials	
					Vol. 04 Book of Standards	
					Properties of Concrete, A.M. Neville	
					Toporties of Controlete, 7t.W. Nevine	
	COT1010	Structural Mechanics	3	Durka, F. Morgan, W. and Williams, DT.	Introduction to Structural Mechanics SI	
				"Structural Mechancis: Loads, Analysis, Design	Edition	
				and materials". Prentice Hall	- by Reynolds, Kent & Lazenby	
					Strength of Materials	
					- by Nesh	
					Solution to problems in Strength of	
1					Materials	
					- by Urry	
	0054040	lister dusting to Constitute the Matter de	0	Cooley I II Deildigg Tooks along I and as The	Factor I C and Haminutan D Otunatura	
	COE1012	Introduction to Construction Methods	2	Seeley, I. H. Building Technology. London: The	_	
				Macmillan Press.	and Fabric. Part 1 (5th ed.). Essex,	
					England: Longman Scientific and Technical	
					Chudley, R. Building Construction	
					Handbook. Jordan Hill, Oxford: Laxton's	
					Ching, F. D. K. and Adams, C Building	
					Construction Illustrated. New York: Van	
					Nostrand Reinhold.	
	COE1005	Introduction to Computer Aided Design and	3			
DIPLOMAS (	(CONSTRUCT	ION MANAGEMENT/STRUCTURAL ENGINEERIN	G) LEVEL 2			
	COE3034	Computer Aided Design and Drafting	3			
	QUS3003	Estimating	3	Chris Wilcox "Measurements of Construction		
	QUS1001	Measurements of Building Works 1	3	Chris Wilcox "Measurements of Construction		
	COE2021	Material Science	2	Civil Engineering Materials by Neil Jackson	Materials for Civil & Highway Engineering	
	COE2007	Structures 1	3	Norris, C.H. & Wilbur J.B., "Elementary	Norris, C.H. & Wilbur J.B., "Elementary	
	COE2018	Building Services	3			
	COE2019	Construction Methods	3		Barry R. "Construction of Buildings". Vols 1	
	COE2020	Construction Administration for the Built	3	Turner: "Building Contracts" Godwin		
	COT2011	Materials Laboratory 2	2	UTECH/CED Materials Laboratory Manual	Engineering Properties of Soils and their	
	SGI1014	Introduction to Land Surveying	3		Schofield, W. "Engineering Surveying"	
DIPLOMA IN	T	TION MANAGEMENT LEVEL 3 CORE				
	COE3009	Measurements	3			
	COE3031	Construction Methods & Systems	3	Stroud Foster et al – Mitchells Building		
		Construction Management and Operations	3			
	COE3032			R. Holmes: Introduction to Civil Engineering		
	CIE3001	Civil Engineering 1	3	<u> </u>		
			2			
	CIE3001	Civil Engineering 1		Kavanagh, B. & Glen-Bird S.J. (1996)		
	CIE3001 COE3033	Civil Engineering 1 Construction Project Monitoring		Kavanagh, B. & Glen-Bird S.J. (1996)  UTECH/CED Materials Laboratory Manual	Engineerig Properties of Soils and their	
	CIE3001 COE3033 COE3008	Civil Engineering 1 Construction Project Monitoring Site Surveying	2 4	, , ,	Engineerig Properties of Soils and their Measurement, Joseph Bowles	
	CIE3001 COE3033 COE3008	Civil Engineering 1 Construction Project Monitoring Site Surveying	2 4	, , ,		
	CIE3001 COE3033 COE3008	Civil Engineering 1 Construction Project Monitoring Site Surveying	2 4	, , ,		
	CIE3001 COE3033 COE3008	Civil Engineering 1 Construction Project Monitoring Site Surveying	2 4	, , ,	Measurement, Joseph Bowles	
	CIE3001 COE3033 COE3008	Civil Engineering 1 Construction Project Monitoring Site Surveying	2 4	, , ,	Measurement, Joseph Bowles  American Society for Testing and Materials	
	CIE3001 COE3033 COE3008	Civil Engineering 1 Construction Project Monitoring Site Surveying	2 4	, , ,	Measurement, Joseph Bowles  American Society for Testing and Materials	

DIDLOMA IN STRUCTUR	AL ENGINEERING LEVEL 3 CORE			1
COE3010	Theory of Structures	3	Morley:	
	Theory of cardotales		Theory of Structures	
			Gaylord, E. H. & Gaylord C. N. :Structural	
			Engineers' Handbook	
			Merritt, F.S.:	
			Standard Handbook for Civil Engineers	
			Standard Hamasser ist Givii Zingiiisere	
			W Fisher, Cassie:	
			Structural Analysis. Longmans	
COE3003	Soil Mechanics	2	G. N Smith:	
			"Elements of Soil Mechanics B.SP	
			K.Terzaghi:"Soil Mechanics in Engineering	
			Practice"	
			R. Whitlon: "Basic Soil Mechanics"	
			Dasic Golf Mechanics	
			R.F. Craig:	
			Soil Mechanics"	
			M. S. Smith: "Soil Mechanics" Longmans	
COE3031	Construction Methods & Systems	3	Stroud Foster et al – Mitchells Building	
			Construction series "Structure & Fabric I and II	
			D. Obradian Buildian Construction Vale 4.4	
			R. Chudley: Building Construction Vols 1-4	
			P. Brett: Formwork & Concrete Practice"	
			Heinemann	
COE3026	Structures 3A - Design and Detailing	3	Reinforced Concrete, Mechanics & Design, 4e	Reinforced Concrete : A Fundamental
			by James A. Macgregor	Approach, 4e
				by Dr. Edward G. Naway P.E.
				Design of Concrete Structures
				by Winter & Nilson
				Concrete Design Handbook
				by Canadian Portland Cement Association
COE3004	Structures 3B - Design and Detailing	3	Steel Structures, Design & Behavior: Load	
			Resistance Factor Approach, 4e by Charles G.	
			Salmon & John E. Johnson	
			ACI 318-02, Building Code and Commentary	
			2. 2.2 22, 25	
			AISC LRFD -1999 Manual of Steel Construction	
COE3008	Site Surveying	<u> </u>	Schofield, W. "Engineering Surveying"	
COE3000	Site Surveying		Cononcia, vv. Engineering Surveying	
			Uren, J. & Price W. "Surveying for Engineers"	
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CIE3001	Civil Engineering 1	3	R. Holmes: Introduction to Civil Engineering	
			Construction	
			F. S. Merrit:	
			Standard Handbook for Civil Engineers	
005000	Comptunities Dustrat Manifestin			
COE3033 COT3011	Construction Project Monitoring  Materials Laboratory 3	2	UTECH/CED Materials Laboratory Manual	Engineerig Properties of Soils and their
	Waterials Eaberatory 5	<b> </b>	O LOT TOLD Materials Laboratory Maridal	Measurement, Joseph Bowles
				American Society for Testing and Materials,
				Vol. 04 Book of Standards
				Properties of Concrete, A.M. Neville
	<u> </u>			1

B.ENG CONS	CODE TRUCTION EN	NAME OF MODULE GINEERING LEVEL 1 CORE	CREDITS	BOOKS REQUIRED	RECOMMENDED
	COT1012	Materials Laboratory 1	2	UTECH/CED Materials Laboratory Manual	Engineerig Properties of Soils and their
	COE1004	Construction Drawing	3		
	COE1010	Introduction to Material Science	2		
	COT1010	Structural Mechanics	3	Durka, F. Morgan, W. and Williams, DT.	Introduction to Structural Mechanics SI
	COE1012	Introduction to Construction Methods	2	Chudley, R - Construction Technology	Greeno, R Building Construction
B.ENG CONS	 TRUCTION EN	 GINEERING LEVEL 2 CORE			
	COE1002	Engineering Geology	3	Engineering Geology, an Environmental Approach	
	COE1005	Introduction to Computer Aided Design and	3	Kirkpatrick, M. James, The AutoCAD Book:	
	COE2007	Structures 1	3		Norris, C.H. & Wilbur J.B., "Elementary
	COT2011	Materials Laboratory 2	2	UTECH/CED Materials Laboratory Manual	Engineering Properties of Soils and their
	COE2014	Site Surveying	3		Schofield, W. "Engineering Surveying"
	COE2019	Construction Methods	3		Barry R. "Construction of Buildings". Vols 1
B.ENG CONS	 TRUCTION EN	 GINEERING LEVEL 3 CORE			
	MEE3003	Fluid Mechanics	3		
	MEE2017	Thermal Fluid Science Lab 1	2		
	COE3010	Theory of Structures	4	Morley:	
	COE2015	Measurement & Estimating 1	2	·	
	COE3003	Soil Mechanics	2	G. N Smith:	
	COE3026	Structures 3A- Design and Detailing	3	Reinforced Concrete, Mechanics & Design, 4e	Reinforced Concrete : A Fundamental Approach,
	COE3034	Computer Aided Design and Drafting	3		
	CIE3001	Civil Engineering 1	3	R. Holmes: Introduction to Civil Engineering Construction	
	COE3004	Structures 3B- Design and Detailing	3	Steel Structures, Design & Behavior: Load Resistance	
	COE3005	Services Engineering	2		Stein, Reynolds, McGuiness "Mechanical and
	COT3011	Materials Laboratory 3	2		
B.ENG CONS	 TRUCTION EN	 GINEERING LEVEL 4 CORE			
	COE4001	Structures 4	3	Morley: "Theory of Structures"	
				Gaylord EH & Gaylord CN; "Structural Engineering Hand Book"	
				Merrith. F.S.: "Standard Hand Book for civil Engineers" W. Fisher Cassie:" Structural Analysis" Longmans"	
				"Steel Designers Manual" Crosby Lockland Staples, London	
				AJSP. ppard & J.F. Baker: "The Analysis of Engineering Structures" Arnold, London	
				JJ Tuma: "Theory & Problems of Structural Analysis" McGraw-Hill N.Y	

COE4002	Site Monitoring	1		
COE3031	Construction Methods & Systems	3	Stroud Foster et al – Mitchells Building Construction serie "Structure & Fabric I and II	es
			R. Chudley: Building Construction Vols 1-4	
			P. Brett: Formwork & Concrete Practice" Heinemann	
COE4006	Construction Management	2		Management Techniques applied to Construction Industry; Oakley and Poskitt;
				Principles of Construction Management – R. Pilcher
				Modern Construction Management – Frank Harris/Ronald McCaffer
COE4015	Professional Practice	2	Turner: "Building Contracts" Godwin	
			Aqua Group: "Contract Administrative" Crosby Lockwood & Son	
CIE4001	Civil Engineering 2	2	Holmes: "Introduction to Civil Engineering Construction"	
			F.S. Merrit: "Standard Handbook for Civil Engineering" McGraw-Hill	
COE4005	Structures 5 (Design & Detailing)	3	Design of Wood Structures,4e by Donald E. Breyer	Steel Structures, Design & Behavior: Load Resistance Factor Approach, 4e by Charles G. Salmon & John E. Johnson
			Timber Construction Manual, 4e by American Institute of Timber Construction	ACI 318-95, Building Code and Commentary
			Design of Pre-stressed Concrete by Arthur H. Nilson	AISC LRFD Manual of Steel Construction
			Precast and Prestressed Concrete PCI DESIGN HANDBOOK	Reinforced Concrete : A Fundamental Approach, 4e by Dr. Edward G. Naway P.E.
			Reinforced Masonry Engineering Handbook by Masonry Institute of America	Design of Concrete Structures by Winter & Nilson
			Reinforced Concrete, Mechanics & Design, 3e by James A. Macgregor	Concrete Design Handbook by Canadian Portland Cement Association
				Structural Steel Designers Handbook by Brockerbrough & Merrit
ENE4001	Environmental Engineering	2	Corbit, Robert A., A standard handbook of Environmental Engineering	
			Feachin Richard, G. , Environmental Health Engineering in the Tropics	
			Liu, David F., Environmental Engineering Handbook.	
PRJ4017	Final Project	3	Schloss, P.J. & Maureen Smith. Conducting Research. Merril/Prentice Hall, (Latest Edition), or appropriate Text.	

CODE	NAME OF MODULE	<b>CREDITS</b>	BOOKS	
BACHELORS IN CONSTRUCTION MANAGEMENT LEVEL 4			REQUIRED	RECOMMENDED
COE4016	Technology A	2		Chudley, R. Construction Technology 1-4
COE4026	Project Finance and Development	2	Financial Management: Principles and Applications	Fisk, E. R., (July 2005) Construction
COE4027	Financial Management Accounting	3		
RES4007	Research Studies	2		
COE4020	Office Practice	2	Fisk, E. R., (July 2005) Construction Project	Ahuja H. N., Dozzi, P. and AbouRizk, S.,
COE4004	Professional Practice	2	Fisk, E. R., (July 2005). Construction Project	Ahuja H. N., Dozzi, P. and AbouRizk, S.,
COE4017	Project Analysis & Evaluation	2		
COE4019	Technology B	2		E & C Gaylord Structural Engineering
COE4023	Construction Law and Contracts	2	Smith & Keenan's LAW FOR BUSINESS, Denis	
COE4025	Service Engineering	2		
MAN2001	Organization & Management 1	3		
COE4013	Construction Management in Practice	2	Edwards, R. Fisk	Nunnaly, S. W.
COE4014	Technology 2	3		Neville, A.M. & Brooks J.J.
COE4022	Planning, Programming and Scheduling	2	Fisk E. R, 6th edition 2000, Construction Project	
COE4028	Construction Management Seminar	2		
PRJ4014	Major Research Project	3		