

Recommended Texts of Diploma in Electrical & Electronic Engineering (V3)

Course Name	Recommended Text	Author/ Title/ Publisher/ Year	Call No.
Basic Power System ELEG2104	Main	Edward Hughes, Dr John Hiley, Dr Keith Brown, Ian McKenzie-Smith. <u>Electrical and electronic technology</u> . 12th ed. Pearson, 2016.	621.3/HUG-4 <i>Title should be <u>Hughes electrical & electronic technology</u></i>
		J. Duncan Glover, Thomas J. Overbye, Muluatla S. Sarma. <u>Power system analysis and design</u> . Cengage Learning. 2017	621.3191/GLO/2017
	Supplementary	-	
Calculus I MATH1194	Main	James Stewart. <u>Single variable calculus : concepts and contexts, enhanced edition</u> . 4th ed. Cengage, 2019.	Available in Cengage e-textbook
	Supplementary	James Stewart, Daniel Clegg, Saleem Watson. <u>Calculus</u> . 9th. ed. Cengage Learning US, 2020.	Available in Cengage e-textbook
		W. Michael Kelley. <u>Calculus I. Alpha</u> , 2016.	515/KEL
		James Stewart and Lothar Redlin. <u>Precalculus : mathematics for calculus</u> . 7th ed. Brooks Cole, 2016.	510/STE/2016
		Paul Calter & Michael A. Calter. <u>Technical mathematics with calculus</u> . 6th ed. Wiley, 2011.	515/CAL-3
		Richard L. Burden, J. Douglas Faires, Annette M. Burden. <u>Numerical analysis</u> . 10th ed. Cengage, 2016.	Available in Cengage e-textbook
		James Stewart, Lothar RedLin, SaLeem Watson. <u>Precalculus : mathematics for calculus</u> . 7th ed. Cengage Learning US, 2016.	Available in Cengage e-textbook
Calculus II MATH2264	Main	Joel Hass, Christopher E. Heil, and Maurice D. Weir. <u>Thomas' Calculus</u> . 14th ed. Pearson, 2019.	515/THO/2020

		Dennis G. Zill. <u>Advanced engineering mathematics</u> . 6th ed. Jones & Bartlett Learning, 2018.	620.00151/ZIL-2
	Supplementary	-	
C++ Programming CSEG1004	Main	D. S. Malik. <u>C++ programming : program design including data structures</u> . Cengage Learning, 2017. D. S. Malik. <u>C++ programming: from problem analysis to program design</u> . 8 th ed. Cengage Learning, 2017.	005.13/MAL/2018 005.13/MAL-2/2018
	Supplementary	Seiichi Nomura. <u>C programming and numerical analysis : an introduction</u> . Morgan & Claypool Publishers, 2018.	518/NOM
Digital Technique I ELEG1094	Main	Ronald J. Tocci, Neal S. Widmer, Gregory L. Moss. <u>Digital systems : principles and application</u> . 12th ed., 2016. Enoch O. Hwang . <u>Digital logic and microprocessor design with interfacing</u> . 2nd ed. Cengage Learning US, 2017. Charles H. Roth, Larry L. Kinne, Eugene B. Joh. <u>Fundamentals of logic design. enhanced ed</u> . 7th. ed. Cengage Learning US, 2020. Charles H. Roth, Jr.; Lizy K. John. <u>Digital systems design using VHDL</u> . 3rd. ed. Cengage Learning US, 2017.	621.381/WID/2017 Available in Cengage e-textbook Available in Cengage e-textbook Available in Cengage e-textbook
	Supplementary	William Kleitz. <u>Digital electronics : a practical approach with VHDL</u> . 9th ed. Pearson Education Limited, 2014.	621.381/KLE
Digital Techniques II ELEG2133	Main	Ronald J. Tocci, Neal S. Widmer, Gregory L. Moss. <u>Digital systems : principles and application</u> . 12th ed. Pearson, 2017.	621.381/WID/2017
	Supplementary	Tertulien Ndjountche. <u>Digital electronics 1 : combinational logic circuits</u> . Wiley, 2016.	621.395/NDJ

		<p>Enoch O. Hwang. <u>Digital logic and microprocessor design with interfacing</u>. 2nd ed. Cengage, 2018.</p> <p>Charles H. Roth, Larry L Kinney, et al. <u>Fundamentals of logic design, enhanced edition</u>. 7th ed. Cengage, 2021.</p>	<p>Available in Cengage E-textbook</p> <p>Available in Cengage E-textbook</p>
Electric Circuits I ELEG1083	Main	James S. Kang. <u>Electric Circuits</u> . Cengage, 2018.	Available in Cengage E-textbook
	Supplementary	Charles Alexander & Matthew Sadiku. <u>Fundamentals of electric circuits</u> . 6 th ed. McGraw-Hill, 2017.	621.319/ALE/2017
Electric Circuits II ELEG1183	Main	James S. Kang. <u>Electric Circuits</u> . Cengage, 2018.	Available in Cengage E-textbook
	Supplementary	Charles Alexander & Matthew Sadiku. <u>Fundamentals of electric circuits</u> . 6 th ed. McGraw-Hill, 2017.	621.319/ALE/2017
Electronics I ELEG1074	Main	<p>Thomas L. Floyd. <u>Electronic devices</u>. 10th ed. Pearson, 2018.</p> <p>Thomas L. Floyd. <u>Electronic devices : conventional current version</u>. 10th ed. Pearson, 2018.</p>	<p>621.3815/FLO-2/2018</p> <p><i>Title should be</i> <u><i>Electronic devices : electron flow version</i></u></p> <p>621.3815/FLO/2018</p>
	Supplementary	-	
Electronics II ELEG2044	Main	<p>Thomas L. Floyd. <u>Electronic devices</u>. 10th ed. Pearson, 2018.</p> <p>Thomas L. Floyd. <u>Electronic devices : conventional current version</u>. 10th ed. Pearson, 2018.</p>	<p>621.3815/FLO-2/2018</p> <p><i>Title should be</i> <u><i>Electronic devices : electron flow version</i></u></p> <p>621.3815/FLO/2018</p>
	Supplementary	-	

Engineer and Society EEES2012	Main	C. E. Harris , M. S. Pritchard and M. J. Rabins, R James, E. Englehardt. <u>Engineering ethics : concepts and cases</u> . 6th ed. Belmont : Wadsworth , 2019.	174.962/HAR/2019
	Supplementary	P. AarneVesilind, Alastair S. Gunn. <u>Hold paramount : the engineers responsibility to society</u> . Brooks/Cole-Thompson Learning, 2016.	174.962/VES/2016
		L. P. Pojman, P. Pojman, K. Mcshane. <u>Environmental ethics : readings in theory and application</u> . Cengage Learning, 2017.	179.1/POJ-2
Industrial Training ELEG3048	Main	<i>Reference materials relevant to the individual project to be provided by the project supervisor.</i>	
	Supplementary	-	
Microprocessors ELEG2214	Main	Salvador Pinillos Gimenez. <u>8051 Microcontroller : Fundamental Concepts, Hardware, Software and Applications in Electronics</u> . 2019 ed. Springer, 2018	006.22/GIL
	Supplementary	Danial Kusswurm. <u>Modern X86 assembly language programming : covers x86 64-bit, AVX, AVX2, and AVX-512</u> . 2 nd ed. Apress, 2018.	005.2/KUS/2018
Physics I PHYS1014	Main	Christine Caputo. <u>McGraw-Hill education SAT subject test physics</u> . 3rd ed. McGraw Hill Professional, 2018.	530.076/CAP/2019
		John D. Cutnell and Kenneth W. Johnson. <u>Physics</u> . 10th ed. Wiley, 2015.	530/CUT/2015 <i>Title should be <u>Cutnell & Johnson physics</u></i>
		Raymond A. Serway and John W. Jewett. <u>Physics for scientists and engineers</u> . 10 th ed. Cengage, 2019.	Available in Cengage e-textbook
	Supplementary	John D. Cutnell, Kenneth W. Johnson and David Marx. <u>Student Study Guide to accompany Physics</u> . 10th ed. Wiley, 2015.	530/CUT-5.2

		John D. Cutnell, Kenneth W. Johnson and David Marx. <u>Student Solutions Manual to Accompany Physics</u> . 10th ed. Wiley, 2015.	530/CUT-4.2 <i>Title should be</i> <u><i>Student solutions manual to accompany Cutnell & Johnson Physics</i></u>
Physics II PHYS1114	Main	Raymond A. Serway and John W. Jewitt. <u>Physics for scientist and engineers</u> . 10th ed. Cengage Learning, 2019. John D. Cutnell and Kenneth W. Johnson. <u>Physics</u> . 11th ed. Wiley, 2019 Debora M. Katz. <u>Physics for scientists and engineers : foundations and connections, extended version with modern physics</u> . Cengage, 2017.	530/SER:2/2019 <i>Title should be</i> <u><i>Physics for scientists and engineers with modern physics</i></u> 530/CUT/2019 <i>Title should be</i> <u><i>Cutnell & Johnson physics</i></u> Available in Cengage e-textbook
	Supplementary	-	
Power Electronics and Electric Machines ELEG2163	Main	Thomas L. Floyd. <u>Electronic Devices</u> . 10th ed. Pearson, 2018. El-Sharkawi. <u>Fundamentals of electric drives</u> . 2nd ed. Cengage Learning US, 2018. Jan E. Melkebek. <u>Electrical machines and drives : fundamentals and advanced modelling</u> . 2018. Andrzej M. Trzynadlowski. <u>Introduction to modern power electronics</u> . 2nd ed. John Wiley & Sons, 2016. Stephen L. Herman. <u>Understanding motor controls</u> . 4 th ed. Cengage Learning US, 2020. Barry Hollembeak. <u>Today's technician : automotive electricity and electronics, classroom and shop manual</u>	621.3815/FLO/2018 Available in Cengage e-textbook 621.31042/MEL 621.317/TRZ-2 Available in Cengage e-textbook Available in Cengage e-textbook

		<p><u>pack</u>. 7th. ed. Cengage Learning US, 2019.</p> <p>Diane Lobsiger. <u>Electrical control for machines</u>. 7th. ed. Cengage Learning US, 2021.</p>	Available in Cengage e-textbook
	Supplementary	Muhammad H. Rashid. <u>Power electronics : circuits, devices, and applications</u> . 4th ed. Prentice Hall, 2014.	621.381044/RAS
Programmable Logic Controllers (PLCs) ELEG2283	Main	Frank D. Petruzella. <u>Programmable logic controllers</u> . McGraw Hill, 5th ed., 2017.	629.8/PET-4
	Supplementary	Frank D. Petruzell. <u>Activities manual for programmable logic controllers</u> . 5 th ed. McGraw-Hill, 2017.	629.8/PET-3.2
Project & Practice I ELEG2292	Main	<i>Reference materials relevant to the individual project to be provided by the project supervisor.</i>	-
	Supplementary	<p>IEE Technical Report Writing (Professional briefing)</p> <p>David Ingre; Robert Basil. <u>Engineering communication : a practical guide to workplace communications for engineers</u>. 2nd ed. Cengage Learning US, 2017.</p> <p>David W. Beskeen; Carol M. Cram; Jennifer Duffy. <u>Illustrated Microsoft Office 365 & Office 2019 Intermediate</u>. Cengage Learning US, 2020.</p> <p>Timothy Kloppenborg; Vittal S. Anantatmula, Kathryn•N. Wells. <u>Contemporary project management</u>. 4th ed. Cengage Learning US, 2019</p> <p>Darlene Smith-Worthington & Sue Jefferson. <u>Technical writing for success</u>. 4th ed. Cengage Learning US, 2018.</p>	<p>-</p> <p>Available in Cengage E-textbook</p> <p>Available in Cengage E-textbook</p> <p>Available in Cengage E-textbook</p> <p>Available in Cengage E-textbook</p>

		<u>Project report guideline</u>	Refer to https://southernuniversitycollege-my.sharepoint.com/:w:/g/person/all/lc9663_sc_edu_my/EXdFORbJkRpDjb9EppY79_MByejCjuyV3Twwq5qg7xDoAA?e=grUsaz
Project & Practice II ELEG2394	Main	Reference materials relevant to the individual project to be provided by the project supervisor.	-
	Supplementary	<p>IEE Technical Report Writing (Professional briefing)</p> <p>David Ingre; Robert Basil. <u>Engineering communication : a practical guide to workplace communications for engineers</u>. 2nd ed. Cengage Learning US, 2017.</p> <p>David W. Beskeen; Carol M. Cram; Jennifer Duffy. <u>Illustrated Microsoft Office 365 & Office 2019 Intermediate</u>. Cengage Learning US, 2020.</p> <p>Timothy Kloppenborg; Vittal S. Anantatmula, Kathryn•N. Wells. <u>Contemporary project management</u>. 4th ed. Cengage Learning US, 2019</p> <p>Darlene Smith-Worthington & Sue Jefferson. <u>Technical writing for success</u>. 4th ed. Cengage Learning US, 2018.</p> <p><u>Project report guideline</u></p>	<p>-</p> <p>Available in Cengage E-textbook</p> <p>Available in Cengage E-textbook</p> <p>Available in Cengage E-textbook</p> <p>Available in Cengage E-textbook</p> <p>Refer to https://southernuniversitycollege-my.sharepoint.com/:w:/g/person/all/lc9663_sc_edu_my/EXdFORbJkRpDjb9EppY79_MByejCjuyV3Twwq5qg7xDoAA?e=grUsaz</p>

Software Application and Simulations ELEG2273	Main	<p>Stormy Attaway. <u>Matlab : a practical introduction to programming and problem solving</u>. 5th ed., Butterworth-Heinemann, 2019.</p> <p>Sandeep Nagar. <u>Introduction to MATLAB for engineers and scientists : solutions for numerical computation and modeling</u>. Apress, 2017.</p> <p>Yasser Shoukry. <u>Practical Autodesk AutoCAD 2021 and AutoCAD LT 2021 : a no-nonsense, beginner's guide to drafting and 3D modeling with AutoDesk AutoCAD</u>. Packt Publishing, 2020.</p>	<p>518.028553/ATT/2019</p> <p>510.285536/NAG</p> <p>On order</p>
	Supplementary	<p>Charles Alexander & Matthew Sadiku. <u>Fundamentals of electric circuits</u>. 6th ed. McGraw-Hill, 2017.</p> <p>Stephen J. Chapman. <u>Essentials of MATLAB® programming</u>. 3rd ed. Cengage, 2018.</p> <p>Stephen J. Chapman. <u>MATLAB Programming for Engineers</u>. 6th ed. Cengage, 2020.</p> <p>Ted Branoff , Cecil H. Jensen, et al. <u>Interpreting Engineering Drawings</u>. 8th ed. Cengage, 2018</p> <p>James W. Nilsson, Susan A. Riedel. <u>Introduction to PSpice manual for electric circuits using OrCad Release 9.1</u>. 4th ed. USA: Prentice Hall, 2008</p>	<p>621.319 ALE 2017</p> <p>Available in Cengage e-textbook</p> <p>Available in Cengage e-textbook</p> <p>Available in Cengage e-textbook</p> <p>621.3815/NIL-5 <i>Title should be <u>Introduction to PSpice manual using OrCAD release 10.5</u></i></p>
Technical Mathematics MATH1053	Main	<p>W. Michael Kelley. <u>Calculus I</u>. Alpha, 2016.</p> <p>Dale Ewen. <u>Elementary technical mathematics</u>. 12th ed. Cengage, 2019.</p> <p>John C. Peterson, Robert D. Smith. <u>Introductory Technical Mathematics</u>. 7th ed. Boston, 2019.</p>	<p>515/KEL</p> <p>Available in Cengage e-Textbook</p> <p>516/PET/2019</p>

	Supplementary	Paul Calter & Michael A. Calter. <u>Technical mathematics with calculus</u> . 6th ed. Wiley, 2011.	515/CAL-3
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