

## Recommended Texts of Diploma in Electrical & Electronic Engineering

Course Name	Recommended Text	Author/ Title/ Publisher/ Year	Call No.
Calculus I MATH2184	Main	W. Michael Kelley. <u>Calculus I</u> . Alpha, 2016.	515/KEL
		James Stewart and Lothar Redlin. <u>Precalculus : mathematics for calculus</u> . 7th ed. Brooks Cole, 2016.	510/STE/2016
	Supplementary	Paul Calter & Michael A. Calter. <u>Technical mathematics with calculus</u> . 6th ed. Wiley, 2011.	515/CAL-3
Calculus II MATH2284	Main	Joel Hass, Christopher E. Heil, and Maurice D. Weir. <u>Thomas' Calculus</u> . 3rd ed. Pearson, 2015.	<b>New ed.</b> <b>2019, 14<sup>th</sup> ed.</b> 515/THO/2020
		Dennis G. Zill. <u>Advanced engineering mathematics</u> . 6th ed. Jones & Bartlett Learning, 2018.	620.00151/ZIL-2
	Supplementary	-	
C Programming CSEG1124	Main	Seichi Nomura. <u>C programming and numerical analysis : an introduction</u> . Morgan & Claypool Publishers, 2018.	518/NOM
		H.M. Deitel and P.J. Deitel. <u>C How to program</u> . 9th ed. Prentice Hall, 2011.	Not available
	Supplementary	D.S. Malik. <u>C++ programming : from problem analysis to program design</u> . 8th ed. Cengage Learning, 2018	005.13/MAL-2/2018
Digital Technique I ELEG2004	Main	Ronald J. Tocci, Neal S. Widmer, Gregory L. Moss. <u>Digital systems : principles and application</u> . 12th ed., 2016.	621.381/WID/2017
	Supplementary	William Kleitz. <u>Digital electronics : a practical approach with VHDL</u> . 9th ed. Pearson Education	621.381/KLE

		Limited, 2014.  Thomas L. Floyd. <u>Digital fundamentals</u> . 10th ed. Prentice Hall, 2008.	<b>New ed.:</b> <b>c2015, 11th ed.</b> 621.3815/FLO-6
Digital Techniques II ELEG2133	Main	Ronald J. Tocci, Neal S. Widmer, Gregory L. Moss. <u>Digital systems : principles and application</u> . 12th ed. 2017.	621.381/WID/2017
	Supplementary	Tertulien Ndjountche. <u>Digital electronics 1 : combinational logic circuits</u> . Wiley, 2016.	621.395/NDJ
Electric Circuits I ELEG2043	Main	Charles Alexander & Matthew Sadiku. <u>Fundamentals of electric circuits</u> . 6 <sup>th</sup> ed. McGraw-Hill, 2017.	621.319/ALE/2017
	Supplementary	Allan H. Robbins and Wilhelm C. Miller. <u>Circuit analysis theory and practice</u> . 5 <sup>th</sup> ed. Delmar, 2013.	621.319/ROB-3
Electric Circuits II ELEG2143	Main	Charles Alexander & Matthew Sadiku. <u>Fundamentals of electric circuits</u> . 6th ed. McGraw-Hill, 2017.	621.319/ALE/2017
	Supplementary	Allan H. Robbins and Wilhelm C. Miller. <u>Circuit analysis theory and practice</u> . 5 <sup>th</sup> ed. Delmar, 2013.	621.319/ROB-3
Electronics I ELEG2044	Main	Thomas L. Floyd. <u>Electronic devices</u> . 10th ed. Pearson, 2017.	621.3815/FLO-2/2018 <i>Title should be</i> <u><i>Electronic devices :</i></u> <u><i>electron flow version</i></u>
	Supplementary	-	
Electronics II ELEG2144	Main	Thomas L. Floyd. <u>Electronic devices : electron flow version</u> . 10th ed. Pearson, 2018.	621.3815/FLO-2/2018 <i>Tit</i> <i>le should be</i> <u><i>Electronic</i></u> <u><i>devices : electron flow</i></u> <u><i>version</i></u>

		Thomas L. Floyd. <u>Electronic devices : conventional current version</u> .10th ed. Pearson, 2018.	621.3815/FLO/2018
	Supplementary		
Engineer and Society EEES2003	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.  L. P. Pojman, P. Pojman, K. Mcshane. <u>Environmental ethics : readings in theory and application</u> . Cengage Learning, 2017.	174.962/VES/2016  179.1/POJ-2
Engineering Mathematics MATH2384	Main	W. Michael Kelley. <u>Calculus I</u> . Alpha, 2016.	515/KEL
	Supplementary	Dennis G. Zill. <u>Advanced engineering mathematics</u> . 6th ed. Jones & Bartlett Learning , 2018.	620.00151/ZIL-2
Industrial Training ELEG3044	Main	<i>Reference materials relevant to the individual project to be provided by the project supervisor.</i>	
	Supplementary	-	
Introduction to Computing CSEG1013	Main	Gary B. Shelly and Misty E. Vermaat. <u>Discovering computers essentials 2018 : digital technology, data, and devices</u> . Cengage Learning, 2017.  Joyce Farrell. <u>Programming logic and design, comprehensive</u> . 9th ed. Cengage Learning, 2017.	Available in Cengage e-textbook  Available in Cengage e-textbook
	Supplementary		

Microprocessors ELEG2214	Main	Salvador Pinillos Gimenez. <u>8051 microcontroller : fundamental concepts, hardware, software and applications in electronics</u> . Springer, 2018.	006.22/GIL
	Supplementary	Danial Kusswurm. <u>Modern X86 assembly language programming : covers x86 64-bit, AVX, AVX2, and AVX-512</u> . 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.  John D. Cutnell and Kenneth W. Johnson. <u>Cutnell &amp; Johnson Physics</u> . 10th ed. Wiley, 2015.	530.076/CAP/2019  <b>New ed.:</b> <b>2019, 11th ed.</b> 530/CUT/2019
	Supplementary	John D. Cutnell, Kenneth W. Johnson and David Marx. <u>Student study guide to accompany physics</u> . 9th ed. Wiley, 2012.  John D. Cutnell, Kenneth W. Johnson and David Marx. <u>Student solutions manual to accompany physics</u> . 9th ed. Wiley, 2012.	530/CUT-3.3  530 CUT-4.2
Physics II PHYS 1114	Main	Raymond A. Serway and John W. Jewitt. <u>Physics for scientist and engineers</u> . 10th ed. Cengage Learning, 2018.  John D. Cutnell and Kenneth W. Johnson. <u>Physics</u> . 11th ed. Wiley, 2018.  Katz. <u>Physics for scientists and engineers : foundations and connections, extended version with modern physics</u> . Cengage, 2017.	Available in Cengage e-textbook  <b>Old ed.:</b> <b>2015, 10th ed.</b> 530/CUT/2015 <i>Title should be <u>Cutnell &amp; Johnson physics</u></i>  Available in Cengage e-textbook <i>Title should be <u>Physics for scientists and engineers : foundations and connections with modern physics</u></i>

	Supplementary	-	
Power Electronics ELEG3113	Main	Jan E. Melkeebek. <u>Electrical machines and drives : fundamentals and advanced modelling</u> . Springer, 2018.	621.31042/MEL
		Thomas L. Floyd. <u>Electronic devices : conventional current version</u> . 10th ed. Pearson, 2018.	621.3815/FLO/2018
		Andrzej M. Trzynadlowski. <u>Introduction to Modern Power Electronics</u> . 3 <sup>rd</sup> ed. John Wiley & Sons, 2015.	621.317/TRZ-2
		Muhammad H. Rashid. <u>Power electronics : circuits, devices, and applications</u> . 4th ed. Prentice Hall, c2014.	621.381044/RAS
	Supplementary	-	
Programmable Logic Controllers (PLCs) ELEG3233	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 <sup>th</sup> ed. McGraw-Hill, 2017.	629.8/PET-3.2
Project & Practice I ELEG3022	Main	<i>Reference materials relevant to the individual project to be provided by the project supervisor.</i>	-
	Supplementary	IEE Technical Report Writing ( Professional briefing )	-
Project & Practice II ELEG 3123	Main	<i>Reference materials relevant to the individual project to be provided by the project supervisor.</i>	-
	Supplementary	IEE Technical Report Writing ( Professional briefing )	-
Software Application &	Main	Stormy Attaway. <u>Matlab : a practical introduction to programming and problem solving</u> . 5 <sup>th</sup> ed.	518.028553/ATT/2019

Simulations ELEG3023		Butterworth-Heinemann, 2018.  Sandeep Nagar. <u>Introduction to MATLAB for engineers and scientists : solutions for numerical computation and modeling</u> . Apress, 2017.	510.285536/NAG
	Supplementary	John Bird. <u>Electrical circuit theory and technology</u> . 6th ed. Routledge, 2017.  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.	621.3192/BIR/2017  621.3815/NIL-5 <i>Title should be <u>Introduction to PSpice manual using OrCAD release 10.5</u></i>
Technical Mathematics MATH1053	Main	W. Michael Kelley. <u>Calculus I</u> . Alpha, 2016.  Ewen. <u>Elementary technical mathematics</u> . 12th ed. Cengage, 2019  John C. Peterson, Robert D. Smith. <u>Introductory technical mathematics</u> . 2019.	515/KEL  Available in Cengage e-textbook  516/PET/2019
	Supplementary	Paul Calter & Michael A. Calter. <u>Technical mathematics with calculus</u> . 6th ed. Wiley, 2011.	515/CAL-3

2021-4-29 updated