

Department of Physics – Booklist by Course

ELET1405 – Practices in Basic Electronics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Lab Manual for Modern Electronic Communication</i>	Mark E. Oliver, Jeff Beasley, and David Shores	Prentice Hall	9 th Edition, 2007	ISBN-10: 0131568558 ISBN-13: 978-0131568556
	<i>A First Lab in Electronics and Circuits</i>	Yannis Tsvividis	Wiley	International student Edition, 2001	ISBN-10: 0471386952 ISBN 13: 978-0471386957
	<i>PSPICE for Basic Circuit analysis</i>	Joseph Tront	McGraw-Hill Science/Engineering/Math	2 nd Edition, 2005	ISBN-10: 0073103659 ISBN-13: 9780073103655

ELET1500 – Engineering Circuit Analysis and Devices

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Electronic Devices and Circuit Theory</i>	Boylestad and Nashelsky	Pearson Publication	2009	ISBN-10: 0132622262 ISBN-13: 978-0132622264
	<i>Digital Electronics</i>	Thomas Floyd	Pearson Publication	9 th Edition, 2005	ISBN-10: 0131714902 ISBN-13: 9780131714908
	<i>Introduction to Electrical, Electronics, and Communication Engineering</i>	S. Pooranchandra, B. Sasikala, and Afzal Khan	Laxmi Publications	2005	ISBN-10: 8170086396 ISBN-13: 978-8170086390
	<i>Introduction to Electronics</i>	Earl Gates	Delmar Cengage Learning	5 th Edition, 2006	ISBN-10: 1418041025 ISBN-13: 9781418041021

ELET2405 – Practices in Electronic Design 1

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
N/A	No textbooks required.				

ELET2410 – Analogue Electronics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Fundamentals of Analog Circuits</i>	Thomas L. Floyd and Dave Buchla	Pearson	2 nd Edition, 2001	ISBN-10: 0536912610 ISBN-13: 978-0536912619
	<i>Electronics Devices and Circuit Theory</i>	Robert L. Boylestad and Louis Nashelsky	Pearson	11 th Edition, 2012	ISBN-10: 0132622262 ISBN-13: 9780132622264

ELET2415 – Practices in Electronic Design 2

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
N/A	No textbooks required.				

ELET2420 – Solid State Electronic Devices

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Semiconductor Device Fundamentals</i>	Robert F. Pierret	Addison Wesley	2007	ISBN 10: 0201543931 ISBN 13: 9780201543933
	<i>Electronics Devices and Circuit Theory</i>	Robert L. Boylestad and Louis Nashelsky	Pearson	11 th Edition, 2012	ISBN-10: 0132622262 ISBN-13: 9780132622264
	<i>Solid State Electronic Devices</i>	B.G. Streetman and S.K. Banerjee	Prentice Hall	6 th Edition, 2006	ISBN-10: 0131587676 ISBN-13: 978- 0131587670

ELET2450 – Embedded Systems

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Recommended	<i>The AVR Microcontroller and Embedded Systems: Using Assembly and C</i>	Muhammad Ali Mazidi, Sarmad Naimi and Sepehr Naimi	Pearson Education Limited	Pearson New International Edition, 2013	ISBN-10: 1292042567 ISBN-13: 978- 1292042565

ELET2460 – Signals and Systems

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Signals, Systems and Transforms</i>	Phillips, Charles., Parr, John M., Riskin, Eve A	Prentice-Hall	3 rd Edition, 2002	ISBN-10: 0201095890 ISBN-13: 9780201095890
	<i>Signals, and Systems, Schaum's Outline Series</i>	Hsu, Hwei P	McGraw-Hill	3 rd Edition, 1997	ISBN-10: 0070306419 ISBN-13: 978- 0070306417
	<i>Fundamentals of Signals and Systems using MATLAB</i>	Kamen, Edward W, and Heck, Bonnie S	Prentice-Hall	1996	ISBN-10: 0023619422 ISBN-13: 978- 0023619427

ELET2480 – Communication Systems

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Principles of Electronic Communication Systems</i>	Frenzel Louis E. Jr.	McGraw-Hill	3 rd Edition	ISBN-10: 007322278X ISBN-13: 978- 0073222783
Recommended	<i>Electronics Communications Systems:</i>	Tomasi, W	Prentice Hall	5 th Edition	ISBN-10: 0130494925

	<i>Fundamentals Through Advanced</i>				ISBN-13: 9780130494924
	<i>Modern Digital and Analog Communication Systems (The Oxford Series in Electrical and Computer Engineering)</i>	B. P. Lathi and Zhi Ding	Oxford University Press	4 th Edition, 2008	ISBN-10: 0195331451 ISBN-13: 978019533145

ELET2530 – Digital Electronics and Circuits

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Digital Fundamentals</i>	Floyd, T.L.	Pearson Education	10 th Edition	ISBN-10: 0131946099 ISBN-13: 9780131946095
	<i>Digital Design and Computer Architecture</i>	David Money Harris, Sarah L. Harris	Morgan Kaufmann	2007	ISBN-10: 0123704979 ISBN-13: 978-0123704979
	<i>Modern Processor Design Fundamentals of Superscalar Processors</i>	John P. Shen	McGraw-Hill Science/Engineering/Math	1 st Edition, 2004	ISBN-10: 0070570647 ISBN-13: 978-0070570641
	<i>Digital Logic and Microprocessor Design with VHDL</i>	Enoch O. Hwang	CL-Engineering	1 st Edition, 2005	ISBN-10: 0534465935 ISBN-13: 978-0534465933
	<i>Fundamentals of Computer Organization and Design</i>	Sivarama P. Dandamudi	Springer	1 st Edition, 2003	ISBN-10: 038795211X ISBN-13: 978-0387952116

ELET2570 – Microprocessors and Computer Architecture

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Highly Recommended	<i>Basic Engineering Circuit Analysis</i>	J. David Irwin, R. Mark Nelms	Wiley	10 th Edition	ISBN: 978-1-118-95599-4
Recommended	<i>Engineering Circuit Analysis</i>	William H. Hayt, Jack Kemmerly, Steven M. Durbi	TBS	2006	ISBN: 978-0070153851
Recommended	<i>Embedded Systems: Architecture, Programming and Design</i>	Raj Kamal, McGraw Hill	McGraw-Hill	2008	ISBN-10: 0070667640, ISBN-13: 9780070667648

ELET3405 – Practical Analysis of Advanced Electronic Circuits and Systems

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Systems Design for Telecommunication Gateways</i>	A. Bachmutsky	John Wiley and Sons	2010	ISBN-13: 978-0470743003
	<i>Modeling and Control for Intelligent Industrial Systems</i>	G.G Rigatos	Springer-Verlag Publication	2011	ISBN-13: 978-3642178740
	<i>Drives and Control for Industrial Automation</i>	T.K. Kiong & A.S. Putra	Springer-Verlag Publication	2011	ISBN-13: 978-1848824249
	<i>Troubleshooting Electronic Equipment</i>	R.S. Khandpur	McGraw-Hill Companies	2006	ISBN-13 978-0071-47731-4
	<i>Troubleshooting Electrical/Electronic Systems</i>	G.A. Mazur & T.E. Proctor	Amer Technical Publication	3 rd Edition, 2009	ISBN-13: 978-0826-91791-1
	<i>Advanced Electronic Circuit Designs</i>	D.J. Comer	John Wiley & Sons	2003	ISBN 978-0471-22828-8

ELET3430 – Instrumentation and Measurements

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Recommended	<i>Introduction to Instrumentation and Measurements</i>	Northrop, Robert B.	CRC	2 nd Edition, 2005	ISBN 10: 0849337739 ISBN 13: 9780849337734
	<i>Industrial Instrumentation and Control</i>	Singh, S. K.	Tata-McGraw-Hill Publishing Company	2009	ISBN-13 :978-0-07-026222-5
	<i>Fundamentals of Instrumentation and Measurements</i>	Placko, D.	Iste Ltd	2007	ISBN-13: 978-1-905209-39-2

ELET3440 – Introduction to Robotics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Embedded Robotics: Mobile Robot Design and Applications with Embedded Systems</i>	Thomas, B.	Springer	3 rd Edition, 2008	ISBN: 978-3-540-70533-8
	<i>AVR Microcontroller and Embedded Systems: Using Assembly and C</i>	Muhammad Ali Mazidi, Sarmad Naimi, Sepehr Naimi	Pearson Custom Electronics Technology	1 st Edition, 2010	ISBN-10: 0138003319 ISBN-13: 978-0138003319
	<i>The Robotics Primer</i>	Mataric, M. J.	MIT Press	2007	ISBN-13: 978-0-262-63354-3

ELET3450 – Satellite Communication and Navigation Systems

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Satellite Communications Systems Engineering: Atmospheric Effects, Satellite Link Design and System Performance</i>	Ippolito, L. J.	Wiley	2008	ISBN 978-0-470-72527-6
	<i>Global Positioning System: Signals, Measurements and Performance</i>	Misra, P. & Enge, P.	Ganga-Jamuna Press	2 nd Edition, 2010	ISBN 978-0-970-95442-8

ELET3460 – Digital Signal Processing

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Discrete Time Signal Processing</i>	Oppenheim, A. V. & Schafer, R.W.	Pearson Publication	2010	ISBN: 978-0132-06709-6
	<i>Digital Image Processing</i>	Gonzalez, R. C. & Woods, R. E.	Prentice Hall	3 rd Edition, 2007	ISBN: 978-0131-68728-8
	<i>Digital Image Processing Using MATLAB</i>	Blanchet, G. & Charbit, M.	Gatesmark Publishing	2 nd Edition, 2009	ISBN: 978-0982-08540-0
	<i>Digital Signal Processing: An Experimental Approach (Signals and Communication Technology)</i>	Engelberg, S.	Springer	2010	ISBN: 978-1849-96730-3
Highly Recommended	<i>Discrete Time Signal Processing</i>	Oppenheim, Schafer & Buck	Prentice Hall	3 rd Edition, 2009	ISBN-10: 0131988425 ISBN-13: 9780131988422

ELET3470 – Wave Transmission and Fiber Optics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Transmission Lines and Wave Propagation</i>	Magnusson, P. C., Weisshaar, A., Tripathi, V. K. & Alexander, G. C.	CRC Press	4 th Edition, 2000	ISBN: 978-0849-30269-5
	<i>Introduction to Fiber Optics</i>	Crisp, J. & Elliot, B.	Newnes	3 rd Edition, 2005	ISBN: 0 7506 67567
	<i>Wave Transmission and Fiber Optics</i>	Diament, P.	Prentice Hall	International Paperback Edition, 1990	ISBN: 9780023287619

ELET3480 – Wireless Communication Systems

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Wireless Communications: Principles and Practice</i>	Rapaport, T. S.	Pearson Education	2009	ISBN: 978-8131-73186-4
	<i>Wireless Communication Systems-From RF Subsystems to 4G Enabling Technologies</i>	Du, K.-L. & Swamy, M. N. S.	Cambridge University Press	2010	ISBN: 978-0-52111403-5
	<i>Fundamentals of Wireless Communication</i>	Tse, D. and Viswanath	Cambridge University Press.	2005	ISBN-13: 978-0-521-84527-4

ELET3490 – Electronics Project

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
N/A	No textbooks required.				

ELET3600 – Energy Systems Laboratory

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
N/A	No textbooks required.				

ELET3611 – Integrating Alternative Energy

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Wind and Solar Power Systems: Design, Analysis, and Operation</i>	Patel, M. R.	CRC Press	2 nd Edition, 2005	ISBN: 0849315700
Highly Recommended	<i>Integration of Alternative Sources of Energy</i>	Farret, F. A. and Godoy S.M.	Wiley-IEEE Press	1 st Edition, 2006	ISBN: 0471712329
Highly Recommended	<i>Electric Power, Motors, Controls, Generators, Transformers</i>	Kaiser, J.	Goodheart-Willcox Publishers	1997	ISBN: 1566373662

PHYS0411 – Introduction to Mechanics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Physics</i>	Cutnell & Johnson	Wiley	10 th Edition, 2014	ISBN-13: 978-1118651889 ISBN-10: 9781118651889

PHYS0412 – Introduction to Oscillations and Heat

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Physics</i>	Cutnell & Johnson	Wiley	10 th Edition, 2014	ISBN-13: 978-1118651889 ISBN-10: 9781118651889

PHYS0421 – Introduction to Electricity and Magnetism

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Physics</i>	Cutnell & Johnson	Wiley	10 th Edition, 2014	ISBN-13: 978-1118651889 ISBN-10: 9781118651889

PHYS0422 – Introduction to Optics and Nuclear Physics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Physics</i>	Cutnell & Johnson	Wiley	10 th Edition, 2014	ISBN-13: 978-1118651889 ISBN-10: 9781118651889

PHYS1411 – Mechanics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Fundamentals Of Physics Extended Edition</i>	Halliday, Resnick & Walker	Wiley	10 th Edition, 2013	ISBN-13: 978-1118230619 ISBN-10: 1118230612
Recommended	<i>Physics For Scientists & Engineers</i>	Tipler & Mosca	Freeman, W. H. & Company	6 th Edition, 2007	ISBN-10: 142920124X ISBN-13: 978-1429201247

PHYS1412 – Waves, Optics and Thermodynamics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Fundamentals Of Physics Extended Edition</i>	Halliday, Resnick & Walker	Wiley	10 th Edition, 2013	ISBN-13: 978-1118230619 ISBN-10: 1118230612
Recommended	<i>Physics For Scientists & Engineers</i>	Tipler & Mosca	Freeman, W. H. & Company	6 th Edition, 2007	ISBN-10: 142920124X ISBN-13: 978-1429201247

PHYS1421 – Electricity and Magnetism

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Fundamentals Of Physics Extended Edition</i>	Halliday, Resnick & Walker	Wiley	10 th Edition, 2013	ISBN-13: 978-1118230619 ISBN-10: 1118230612
Recommended	<i>Physics For Scientists & Engineers</i>	Tipler & Mosca	Freeman, W. H. & Company	6 th Edition, 2007	ISBN-10: 142920124X ISBN-13: 978-1429201247

PHYS1422 – Modern Physics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Fundamentals Of Physics Extended Edition</i>	Halliday, Resnick & Walker	Wiley	10 th Edition, 2013	ISBN-13: 978-1118230619 ISBN-10: 1118230612
Recommended	<i>Physics For Scientists & Engineers</i>	Tipler & Mosca	Freeman, W. H. & Company	6 th Edition, 2007	ISBN-10: 142920124X ISBN-13: 978-1429201247

PHYS2200 – Practices in Medical Physics I

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
N/A	No textbooks required.				

PHYS2296 – Physics of the Human Body

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Physics of the Human Body</i>	Herman, I.P.	Springer	2007	ISBN: 978-3540296034
Prescribed	<i>Physics of the Body</i>	J. R. Cameron, J. G. Skofronick, and R. M. Grant	Medical Physics Publishing	2 nd Edition, 1999	ISBN-10: 094483891X ISBN-13: 978-0944838914
	<i>Physics in Biology and Medicine</i>	Davidovits, P.	Elsevier/Academic Press	3 rd Edition, 2008	ISBN: 978-0123694119

PHYS2300 – General Physics Lab I

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
N/A	No textbooks required.				

PHYS2351 – Quantum Mechanics and Nuclear Physics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Highly Recommended	<i>Modern Physics</i>	Serway, Moses & Moyer	Harcourt Brace & Co.	3 rd Edition, 2004	ISBN-10: 0534493394 ISBN-13: 978-0534493394
Highly Recommended	<i>Concepts of Modern Physics</i>	Beiser	McGraw-Hill Science/Engineering/Math	6 th Edition, 2002	ISBN-10: 0072448482 ISBN-13: 978-0072448481

PHYS2386 – Electromagnetism and Optics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Introduction to Optics</i>	Pedrotti, F. L., Pedrotti, L. M., and Pedrotti L. S.	Prentice Hall	3 rd Edition, 2007	ISBN 0-13- 149933-5
Recommended	<i>Electricity and Magnetism</i>	Purcell, E. M., and Morin, D. J.	Cambridge University Press	3 rd Edition, 2012	ISBN-13: 978- 1107014022
Recommended	<i>Fundamentals of Physics Extended</i>	Halliday, D., Resnick, R., and Walker J.	Wiley	9 th Edition, 2010	ISBN-13: 978- 0470556535
Recommended	<i>Schaum's Outline of Electromagnetics</i>	Edminister, J. A.	McGraw-Hill	3 rd Edition, 2011	ISBN: 978-0- 07-163235-5
Recommended	<i>Optics</i>	Hecht, E., and Zajac, A.	Addison Wesley	4 th Edition, 2002	ISBN: 0805385665

PHYS2396 – Computer Applications in Physics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Highly Recommended	<i>Computational Physics: Problem Solving with Computers</i>	Landau, R. H., Paez, M. J. and Bordeianu C. C.	Wiley-VCH	2007	ISBN-10: 3527406263 ISBN-13: 978- 3527406265

PHYS2500 – Materials Science Laboratory I

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Highly Recommended	<i>Materials Science and Engineering</i>	Callister, W. D. and Rethwisch, D. G.	Wiley	8 th Edition, 2009	ISBN 10: 0470419970 ISBN 13: 9780470419977

PHYS2561 – Fundamentals of Materials Science

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Materials Science and Engineering: An Introduction</i>	Callister, W. D.	Wiley	7 th Edition, 2006	ISBN 10: 0471736961 ISBN 13: 9780471736967

PHYS2671 – Fluid Mechanics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Fluid Mechanics</i>	Douglas, J. F. Gasiorek, J. M., Swaffield, J. A., and Jack L.B.	Pearson Ed. UK	6 th Edition, 2011	ISBN 978-0- 273-71772-0
Highly Recommended	<i>Mechanics of Fluids</i>	Massey, B. S. and Ward- Smith, J.	CRC Press	9 th Edition, 2011	ISBN-10: 0415602602 ISBN-13: 978- 0415602600

PHYS2701 – Renewable Energy Technologies and Solutions

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Renewable Energy: Power for a sustainable future</i>	Boyle, G.	Oxford University Press	3 rd Edition, 2012	ISBN-13: 978-0199545339
Recommended	<i>Sustainable Energy – Without the Hot Air</i>	MacKay, D. J. C.	Cambridge: UIT	1 st Edition, 2009	ISBN-10: 9780954452933 ISBN-13: 978-0954452933

PHYS3200 – General Physics Lab II

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
N/A	No textbooks required.				

PHYS3300 – Advanced Practices in Medical Physics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
N/A	No textbooks required.				

PHYS3341 – Biomedical Optics and Biomechanics

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Principles of Radiological Physics</i>	Graham Donald T., Cloke Paul J., Vosper Martin	Elsevier Health Sciences	5 th Edition, 2007	ISBN-10: 0443070733 ISBN-13: 9780443070730

PHYS3351 – Modern Physics 2

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Modern Physics and Quantum Mechanics</i>	Anderson, E.E.	Saunders College Pub.	1 st Edition	ISBN-10: 0721612202 ISBN-13: 978-0721612201
Recommended	<i>Concepts of Modern Physics</i>	Beiser, A.	McGraw-Hill Science/Engineering/Math	6 th Edition, 2002	ISBN-10: 0072448482 ISBN-13: 978-0072448481
	<i>Special Relativity</i>	French, A.P.	W. W. Norton & Company	1968	ISBN-10: 0748764224 ISBN-13: 978-0748764228
	<i>Understanding Quantum Physics</i>	Morrison, M.A.	Prentice-Hall Inc.	1 st Edition, 1990	ISBN-10: 0137479085 ISBN-13: 978-0137479085
	<i>Modern Physics</i>	Ohanian, H.	Benjamin Cummings	2 nd Edition, 1995	ISBN-10: 0131244396 ISBN-13: 978-0131244399
	<i>Basic Concepts in Relativity</i>	Resnick, R. and Halliday, D.	Prentice Hall College Div.	3 rd Edition	ISBN-10: 0023993456 ISBN-13: 978-0023993459

Recommended	<i>Modern Physics</i>	Serway, Moses & Moyer	Harcourt Brace & Co.		ISBN-10: 0534493394 ISBN-13: 978- 0534493394
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PHYS3386 – Electromagnetism

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Electromagnetic Fields</i>	Wangsness, R.	Wiley	2 nd Edition, 1986	ISBN: 0471811866
	<i>Introduction to Electrodynamics</i>	Griffiths, D.J.	Prentice Hall	3 rd Edition, 1998	ISBN: 013806326X

PHYS3389 – Medical Radiation Physics and Imaging

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Introduction to Biomedical Imaging</i>	Andrew Webb	Wiley-IEEE Press	2003	ISBN-10: 0471237663 ISBN-13: 978- 0471237662
Highly Recommended	<i>Principles of Radiological Physics</i>	Graham Donald T., Cloke Paul J. and Vosper Martin	Elsevier Health Sciences	6 th Edition, 2012	ISBN-10: 0702052159 ISBN-13: 978- 0702052156
Highly Recommended	<i>Biomedical Optical Imaging</i>	Fujimoto, J.G. and Farkas, D.	Oxford University Press	2009	ISBN-10: 0195150449 ISBN-13: 978- 0195150445

PHYS3395 – Astronomy and Cosmology

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Astronomy: A Self-Teaching Guide</i>	Dinah L. Moche	Wiley	8 th Edition, 2014	ISBN-13: 978- 1-62045-990-4
Highly Recommended	<i>An Introduction to Modern Cosmology</i>	Andrew Liddle	Wiley	3 rd Edition, 2015	ISBN-13: 978- 1118502143

PHYS3399 – Research Project (Non-electronics)

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
N/A	No textbooks required.				

PHYS3500 – Advanced Materials Science Laboratory

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Materials Science and Engineering: An Introduction</i>	Callister, W. D.	Wiley	7 th Edition, 2006	ISBN-10: 0471736961 ISBN-13: 978- 0471736967

PHYS3561 – The Physics of Crystalline Materials

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Materials Science and Engineering: An Introduction</i>	Callister, W. D.	Wiley	7 th Edition, 2006	ISBN-10: 0471736961 ISBN-13: 978-0471736967
	<i>Fundamentals of Ceramics</i>	Barsoum, M.	McGraw-Hill College	1996	ISBN-10: 0070055211 ISBN-13: 978-0070055216
	<i>Electronic Properties of Materials</i>	Hummel, R. E.	Springer	3 rd Edition, 2000	ISBN-10: 038795144X ISBN-13: 978-0387951447
	<i>Thermodynamics In Materials Science</i>	Dehoff, R.T.	McGraw-Hill College	1993	ISBN-10: 0070163138 ISBN-13: 9780070163133

PHYS3562 – The Physics of Non-Crystalline and Amorphous Materials

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Materials Science and Engineering: An Introduction</i>	Callister, W. D.	Wiley	7 th Edition, 2006	ISBN-10: 0471736961 ISBN-13: 978-0471736967

PHYS3565 – Thermodynamics and Kinetics of Materials

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
	<i>Materials Science and Engineering: An Introduction</i>	Callister, W. D.	Wiley	7 th Edition, 2006	ISBN-10: 0471736961 ISBN-13: 978-0471736967

PHYS3661 – Physics of the Atmosphere and Climate

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Highly Recommended	<i>Meteorology for Scientists and Engineers</i>	Roland B. Stull	Brooks/Cole	2 nd Edition	ISBN-10: 0534372147 ISBN-13: 978-0534372149
Recommended	<i>The Atmosphere: An Introduction to Meteorology</i>	Lutgens & Tarbuck	Prentice Hall	11 th Edition	ISBN10: 0321587332 ISBN-13: 978-0321587336

PHYS3671 – Solar Power

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>The Solar Resource and the Fundamentals of Solar Radiation for Renewable Energy Systems</i>	Gottschlag, R.	CPL	2001	ISBN-10: 1903814006 ISBN-13: 978-1903814000
Highly Recommended	<i>Renewable Energy Resources</i>	Twidell, J. & Weir T.	Routledge	2 nd Edition, 2005	ISBN-10: 0419253203 ISBN-13: 978-0419253204
Highly Recommended	<i>Photovoltaics: Design and Installation Manual</i>	Solar Energy International	New Society Publishers	2004	ISBN-13: 978-0-86571-520-2

PHYS3681 – Wind and Hydro Power

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Highly Recommended	<i>Renewable Energy Resources</i>	Twidell, J. & Weir T.	Routledge	2 nd Edition, 2005	ISBN-10: 0419253203 ISBN-13: 978-0419253204
Recommended	<i>Wind Energy Basics</i>	Gipe, P.	Chelsea Green Publishing	2009	ISBN-10: 1603580301 ISBN-13: 978-1603580304

PHYS3701 – Advanced Renewable Energy Technologies and Solutions

Book Type	Title	Author(s)	Publisher	Edition/Year	ISBN
Prescribed	<i>Renewable Energy: Power for a sustainable future</i>	Boyle, G.	Oxford University Press	3 rd Edition, 2012	ISBN-13: 978-0199545339
Recommended	<i>Sustainable Energy – Without the Hot Air</i>	MacKay, D. J. C.	Cambridge: UIT	1 st Edition, 2009	ISBN-10: 9780954452933 ISBN-13: 978-0954452933