1   TEXTBOOKS AND REFERENCES FOR EEE COURSES

TEXTBOOK(S)	REFERENCE(S)
EE1002 PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGINEERING	
1. Serway, Raymond A and Jewett John W, Physics for Scientists and Engineers with Modern Physics, 8th Edition, Brooks/Cole, 2010. (QC23.S492P 2010)	1. Giancoli Douglas C, Physics for Scientists & Engineers with Modern Physics, 4th Edition, Pearson Prentice Hall, 2009. (QC21.2.G433 2009). 2. Young Hugh D, Freedman Roger A, Ford A Lewis and Sears Francis Weston, University Physics : with Modern Physics, 13th Edition, Addison-Wesley, 2012. (QC21.2.Y72U 2012) 3. Walker Jearl, Halliday David and Resnick Robert, Fundamentals of Physics, 9th Edition, Wiley, 2011. (QC21.3.W181 2011)
EE1003 INTRODUCTION TO MATERIALS FOR ELECTRONICS	
To be confirmed.	
EE2001 CIRCUIT ANALYSIS	
1. Nilsson James William and Riedel Susan A, Electric Circuits, 9th Edition, Pearson/Prentice-Hall, 2011. (TK454.N712 2011)	1. Hayt William Hart, Kemmerly Jack Ellsworth and Durbin Steven M, Engineering Circuit Analysis, 7th Edition,McGraw-Hill, 2007. (TK454.H426 2007) 2. Alexander Charles K and Sadiku Matthew N O, Fundamentals of Electric Circuits, 4th Edition,McGraw-Hill, 2009. (TK454.A375 2009)
EE2002 ANALOG ELECTRONICS	
1. Jaeger Richard C & Blalock Travis N, Microelectronic Circuit Design, 4th Edition, McGraw-Hill, 2011. (TK7874.J22M 2011)	1. Razavi Behzad, Fundamentals of Microelectronics, John Wiley, 2008. (TK7874.R278F 2008) 2. Neamen Donald A, Microelectronics: Circuit Analysis and Design, 4th Edition, McGraw-Hill, 2010. (TK7867.N348M 2010)
EE2003 SEMICONDUCTOR FUNDAMENTALS	
1. Neamen Donald A, Semiconductor Physics and Devices: Basic Principles, 3rd Edition, McGraw-Hill, 2003. (QC611.N348 2003)	1. Streetman Ben G and Banerjee Sanjay Kumar, Solid State Electronic Devices, 6th Edition, Pearson/Prentice-Hall, 2006. (TK7871.85.S915 2006) 2. Sze S M, Semiconductor Devices, Physics and Technology, 2nd Edition, John Wiley, 2002. (TK7871.85.S997 2002) 3. Kasap Safo O, Principles of Electronic Materials and Devices, 3rd Edition, McGraw-Hill, 2006. (TK453.K19 2006)

2   TEXTBOOKS AND REFERENCES FOR EEE COURSES

TEXTBOOK(S)	REFERENCE(S)
EE2004 DIGITAL ELECTRONICS	
1. Mano M Morris and Ciletti Michael D, Digital Design, 4th Edition, Pearson Prentice Hall, 2007. (TK7888.3.M285 2007)	1. Wakerly John F, Digital Design: Principles and Practices, 4th Edition, Pearson Prentice-Hall, 2006. (TK7874.W149 2006)
EE2005 AC CIRCUITS AND MACHINES	
1. Guru Bhag S and Hiziroglu Huseyin R, Electric Machinery and Transformers, 3rd Edition, Oxford University Press, 2001. (TK2000.G981 2001)	1. Sen Paresh Chandra, Principles of Electric Machines and Power Electronics, 2nd Edition, John Wiley & Sons, 1997. (TK2000.S474P 1997) 2. Chapman Stephen J, Electric Machinery and Power System Fundamentals, 1st Edition, McGraw-Hill, 2002. (TK2000.C466E)
EE2006 ENGINEERING MATHEMATICS I	
1. Kreyszig Erwin, Advanced Engineering Mathematics, 9th Edition, John Wiley, 2006. (QA401.K92 2006) 2. Johnson Richard Arnold and Bhattacharyya Gouri K, Statistics: Principles and Methods, 6th Edition, John Wiley, 2010. (QA276.12.J68 2010) 3. Patricia J. Y. Wong and Sundararajan N., Engineering Mathematics, McGraw-Hill, 2010.	1. O'Neil Peter V, Advanced Engineering Mathematics, 6th Edition, Thomson, c2007. (TA330.N58 2007) 2. James Glyn, Advanced Modern Engineering Mathematics, 3rd Edition, Pearson Prentice-Hall, 2004. (TA330.A244 2004) 3. Milton J Susan and Arnold Jesse C, Introduction to Probability and Statistics: Principles and Applications for Engineering and The Computing Sciences, 4th Edition, McGraw-Hill, 2003. (TA330.M662 2003) 4. Singh Ravish R and Bhatt Mukul, Engineering Mathematics, McGraw Hill, 2010. (TA333.S617)
EE2007 ENGINEERING MATHEMATICS II	
1. Kreyszig Erwin, Advanced Engineering Mathematics, 9th Edition, John Wiley, 2006. (QA401.K92 2006)	1. Greenberg Michael D, Advanced Engineering Mathematics, 2nd Edition, Prentice-Hall, 1998. (TA330.G798 1998) 2. James Glyn, Advanced Modern Engineering Mathematics, 3rd Edition, Pearson Prentice-Hall, 2004. (TA330.A244 2004) 3. Er Meng Joo, Engineering Mathematics with Real-World Applications, McGraw Hill, 2005. (TA330.E65)
EE2008 DATA STRUCTURES AND ALGORITHMS	
1. Huang Guangbin and Ng Jim Mee, Data Structures and Algorithms, Pearson Education, 2007. (QA76.9.D35D232DS)	1. Johnsonbaugh Richard and Schaefer Marcus, Algorithms, Pearson Education, 2004. (QA76.9.A43J65) 2. Levitin Anany, Introduction to The Design & Analysis of Algorithms, 2nd Edition, 2007. (QA76.9.A43L666 2007)
EE2010 SIGNALS AND SYSTEMS	
1. Roberts Michael J, Fundamentals of Signals and Systems, 1st Edition, McGraw-Hill, 2008. (TK5102.9.R646F)	1. Hwei Hsu, Signals and Systems (from Schaum's Outlines), 2nd Edition, McGraw Hill, 2011. (TK5102.92.H873 2011) 2. Oppenheim Alan V, Willsky Alan S and Nawab Syed Hamid, Signals and Systems, 2nd Edition, Prentice-Hall, 1997. (QA402.P62 1997) 3. Haykin Simon S and Van Veen Barry, Signals and Systems, Wiley, 2nd Edition, 2003. (TK5102.5.H419) 4. Mandal Mrinal Kr and Asif Amir, Continuous and Discrete Time Signals and Systems, 1st Edition, Cambridge University Pres, 2007. (QA402.M271)

3 TEXTBOOKS AND REFERENCES FOR EEE COURSES

TEXTBOOK(S)	REFERENCE(S)
EE2090 BASIC ENGINEERING MATHEMATICS	
1. Bradley Gerald L, Strauss Monty J and Smith Karl J, Calculus, 3rd Edition, Prentice-Hall, 2002. (QA303.B811) 2. Stewart James, Calculus, 6th Edition, Thomson Brooks/Cole, 2008. (QA303.2.S849 2008)	1. Edwards Charles Henry and Penney David E, Calculus, 6th Edition, Prentice-Hall, 2002. (QA303.E26 2002) 2. Trim Donald W, Calculus for Engineers, 4th Edition, Pearson, 2008. (QA303.T831C 2008) 3. Kreyszig Erwin, Advanced Engineering Mathematics, 9th Edition, John Wiley, 2006. (QA401.K92 2006)
EE3001 ENGINEERING ELECTROMAGNETICS	
1. Sadiku Matthew N O, Elements of Electromagnetics, 5th Edition, Oxford University Press, 2010. (QC760.S125 2010) 2. Hayt William Hart and Buck John A, Engineering Electromagnetics, 7th Edition, McGraw-Hill, 2006. (QC670.H426 2006)	1. Ulaby Fawwaz Tayssir, Electromagnetics for Engineers, Pearson Prentice-Hall, 2005. (QC760.U36E)
EE3002 MICROPROCESSOR	
1. Chan C C and Siyal M Y, Intel Microprocessors: Design, Interfacing and Programming, 1st Edition, Prentice-Hall, 2007 (ISBN-13 978-981-06-7698-8)	1. Brey Barry B, The Intel Microprocessors : 8086/8088, 80186/80188, 80286, 80386, 80486, Pentium, Pentium Pro Processor, Pentium II, Pentium III, and Pentium 4 and Core2 with 64-bit extensions: Architecture, Programming, and Interfacing, 8th Edition, Prentice-Hall, 2009. (QA76.8.I292B848I 2009) 2. Mazidi Muhammad Ali and Mazidi Janice Gillispie, The 80x86 IBM PC and Compatible Computers Volumes I & II: Assembly Language, Design and Interfacing (also known as Assembly Language, Design, and Interfacing), 4th Edition, Prentice-Hall, 2003. (QA76.8.I292M476T 2003) 3. Hall Douglas V, Microprocessors and Interfacing: Programming and Hardware, 2nd Edition, McGraw-Hill, 1992. (QA76.6.H175 1992)
EE3003 INTEGRATED ELECTRONICS	
1. Sedra Adel S and Smith Kenneth Carless, Microelectronic Circuits, 6th Edition, Oxford University Press, 2010. (TK7867.S449 2010)	1. Kang Sung-Mo and Leblebici Yusuf, CMOS Digital Integrated Circuits: Analysis and Design, 3rd Edition, McGraw-Hill 2005. (TK7871.99.M44K16 2005) 2. Gray Paul R and Meyer Robert G, Analysis and Design of Analog Integrated Circuits, 5th Edition, John Wiley, 2010. (TK7874.G781 2010) 3. Franco Sergio, Design with Operational Amplifiers and Analog Integrated Circuits, 3rd Edition, McGraw-Hill, 2002. (TK7874.F825 2002)
EE3011 MODELLING AND CONTROL	
1. Ogata Katsuhiko, Modern Control Engineering, 5th Edition, Prentice-Hall, 2010. (TJ213.G34 2010)	1. Dorf Richard C and Bishop Robert H, Modern Control Systems, 11th Edition, Pearson Prentice Hall, 2008. (TJ216.D695 2008) 2. Kuo Benjamin C and Golnaraghi Farid, Automatic Control Systems, 9th Edition, John Wiley, 2010. (TJ213.K96 2010)
EE3012 COMMUNICATION PRINCIPLES	
1. Couch Leon W, Digital and Analog Communication Systems, 7th Edition, Prentice-Hall, 2007. (TK5101.C853 2007)	1. Proakis John G and Salehi Masoud, Communication Systems Engineering, 2nd Edition, Prentice-Hall, 2002. (TK5101.P962 2002) 2. Lathi Bhagwandas Pannalal, Modern Digital and Analog Communication Systems, 4th Edition, Oxford University Press, 2009. (TK5101.L352 2009) 3. Haykin Simon S and Moher Michael, Communication Systems, 5th Edition, John Wiley, 2010. (TK5101.H419 2010)

4 TEXTBOOKS AND REFERENCES FOR EEE COURSES

TEXTBOOK(S)	REFERENCE(S)
EE3013 SEMICONDUCTOR DEVICES AND PROCESSING	
1. Stephen A. Campbell, <u>Fabrication Engineering at the Micro- and Nanoscale</u>, 3rd Edition, Oxford University Press, 2008. (TK7871.85.C191F)	1. Jaegar Richard C, <u>Introduction to Microelectronic Fabrication: Vol 5 of Modular Series in Solid State Devices</u>, 2nd Edition, Prentice-Hall, 2002. (TK7874.J22 2002) 2. Quirk Michael and Serda Julian, <u>Semiconductor Manufacturing Technology</u>, Prentice-Hall, 2001 (TK7836.Q93)
EE3014 DIGITAL SIGNAL PROCESSING	
1. Oppenheim Alan V, Schafer Ronald W and Buck John R, <u>Discrete-Time Signal Processing</u>, 3rd Edition, Pearson Education, 2009. 2. Prandoni Paolo and Vetterli Martin, <u>Signal Processing for Communication</u>, 1st Edition, EPFL Press. (TK5102.9.P899) Download here http://www.sp4comm.org/webversion.html	1. Mitra Sanjit K, <u>Digital Signal Processing : A Computer Based Approach</u>, 3rd Edition, McGraw-Hill, 2006. (TK5102.9.M684 2006)
EE3015 POWER SYSTEMS AND CONVERSION	
1. Chapman Stephen J, <u>Electric Machinery and Power System Fundamentals</u>, 1st Edition, McGraw-Hill, 2002. (TK2000.C466E) 2. Sen Paresh Chandra, <u>Principles of Electric Machines and Power Electronics</u>, 2nd Edition, John Wiley, 1997. (TK2000.S474P 1997)	1. Wildi Theodore, <u>Electrical Machines, Drives and Power Systems</u>, 6th Edition, Pearson/Prentice-Hall, 2006. (TK2182.W673 2006) 2. Agrawal Jai P, <u>Power Electronic Systems: Theory and Design</u>, 1st Edition, Prentice-Hall, 2001. (TK7881.15.A277) 3. Weedy Birron Mathew and Cory Brian John, <u>Electric Power Systems</u>, 4th Edition, John Wiley, 1998. (TK1001.W394 1998)
EE3017 COMPUTER COMMUNICATIONS	
1. Ng Chee Hock and Ma Maode, <u>Computer Communications</u>, McGraw-Hill, 2009. (TK5105.5.N576)	1. Stallings William, <u>Data and Computer Communications</u>, 8th Edition, Pearson/Prentice-Hall, c2007. (TK5105.S782 2007) 2. Kurose James F and Ross Keith W, <u>Computer Networking: A Top-Down Approach</u>, 5th Edition, Addison-Wesley, 2010. (TK5105.875.I57K96 2010) 3. Leon-Garcia Alberto and Widjaja Indra, <u>Communication Networks: Fundamental Concepts and Key Architectures</u>, 2nd Edition, McGraw-Hill, 2004. (TK5101.L579 2004)
EE3018 INTRODUCTION TO PHOTONICS	
1. Pedrotti Frank L, Pedrotti Leno Matthew and Pedrotti Leno S, <u>Introduction to Optics</u>, 3rd Edition, Pearson Prentice Hall, 2007. (QC355.2.P372 2007)	1. Smith Warren J, <u>Modern Optical Engineering: The Design of Optical Systems</u>, 4th Edition, McGraw-Hill, 2008. (TS513.S663 2008) 2. Kasap S O, <u>Optoelectronics and Photonics: Principles and Practices</u>, Prentice-Hall, 2001. (TK8304.K19) 3. Prasad Paras N, <u>Introduction to Biophotonics</u>, Wiley-Interscience, 2003. (QH515.P911)
EE4001 SOFTWARE ENGINEERING	
	1. Sommerville Ian, <u>Software Engineering</u>, 9th Edition, Addison-Wesley, 2011. (QA76.758.S697 2011) 2. Pressman Roger S, <u>Software Engineering: A Practitioner's Approach</u>, 7th Edition, McGraw-Hill, 2010. (QA76.758.P935S 2010) 3. Pezze Mauro, and Young Michal, <u>Software Testing and Analysis: Process, Principles and Techniques,</u> Wiley, 2008. (QA76.76.T48P522)

5   TEXTBOOKS AND REFERENCES FOR EEE COURSES

TEXTBOOK(S)	REFERENCE(S)
EE4040 ENGINEERS AND SOCIETY	
	1. Singapore: Journey Into Nationhood, National Heritage Board: Landmark Books, 1998. (DS610.4.S617j) 2. Johnston Stephen F, Gostelow J Paul and King W Joseph, Engineering and Society: Challenges of Professional Practice, Prentice-Hall, 2000. (TA157.J73) 3. Lee Kuan Yew, From Third World to First. The Singapore Story: 1965:2000, Memoirs of Lee Kuan Yew, Times Editions, 2000. (DS598.S7L478f)
EE4041 HUMAN RESOURCE MANAGEMENT	
1. Robbins Stephen P and Judge Timothy Organizational Behavior, 14th Edition, Pearson, 2010. (HD58.7.R636 2011)	1. Losey Michael R, Meisinger Susan R and Ulrich Dave, The Future of Human Resource Management: 64 Thought Leaders Explore the Critical HR Issues of Today and Tomorrow, John Wiley, 2005. (HF5549.F996F) 2. Collins, James C & Porras, Jerry I, Built to Last: Successful Habits of Visionary Companies, Harper Business, 2002. (HF5386.C712 2002) 3. Kim W Chan and Mauborgne Renée, Blue Ocean Strategy: How to Create Uncontested Market Space and Make Competition Irrelevant, Harvard Business School, 2005. (HF5415.153.K49) 4. Mayo Andrew, The Human Value of the Enterprise: Valuing People as Assets - Monitoring, Measuring, Managing, Nicholas Brealey Publishing, 2001. (HD53.M473) 5. George Stephen, The Baldrige Quality System: The Do-it-yourself Way to Transform your Business, John Wiley, 1992. (HD62.15.G349b) 6. Fitz-Enz Jac, The 8 Practices of Exceptional Companies: How Great Organizations Make the most of their Human Assets, AMACOM, 1997. (HD58.9.F548t) 7. Senge Peter M, The Fifth Discipline: The Art and Practice of the Learning Organization, Currency Doubleday, 2006. (HD58.9.S476 2006) 8. Chew Soon Beng, Trade Unionism in Singapore, McGraw-Hill, 1991. (HD6820.67.C529)
EE4105 CELLULAR COMMUNICATION SYSTEM DESIGN	
	1. Karim M R and Saraf Moshen, W-CDMA and CDMA2000 for 3G Mobile Networks, McGraw Hill, 2002. (TK5103.452.K18) 2. Rappaport Theodore S, Wireless Communications: Principles and Practice, 2nd Edition, Prentice-Hall, 2002. (TK5103.2.R221 2002) 3. Garg Vijay Kumar, IS-95 CDMA and CDMA2000: Cellular/PCS Systems Implementation, Prentice-Hall, 2000. (TK5103.452.G231) 4. Proakis John G, Salehi Masoud and Bauch Gerhard, Contemporary Communication Systems Using MATLAB and Simulink, 2nd Edition, Brooks/Cole, 20004. (TK5105.P962 2004) 5. Proakis John G and Manolakis Dimitris G, Digital Signal Processing: Principles, Algorithms and Applications, 3rd Edition, Prentice-Hall, 1996. (TK5102.5.P962D 1996)

6 TEXTBOOKS AND REFERENCES FOR EEE COURSES

TEXTBOOK(S)	REFERENCE(S)
EE4109 MICROWAVE CIRCUIT AND SYSTEM DESIGN	
	1. Pozar David M, Microwave and RF wireless systems, John Wiley, 2001. (TK5103.2.P893) 2. Edde Byron, Radar: Principles, Technology, Applications, Prentice-Hall, 1993. (TK6575.E21) 3. Chang Kai, Handbook of RF/Microwave Components and Engineering, 2nd Edition, John Wiley, 2003. (TK6560.H236)
EE4110 OPTICAL COMMUNICATION SYSTEM DESIGN	
1. Keiser Gerd, Optical Fiber Communications, 3rd Edition, McGrw-Hil, 2000. (TK5103.59.K27 2000)	1. Hecht Jeff, Understanding Fiber Optics, 5th Edition, Pearson/Prentice-Hall, 2006. (TA1800.H447 2006) 2. Powers John P, An Introduction to Fiber Optic Systems, 2nd Edition, Irwin, 1999. (TA1800.P888 1999) 3. Palais Joseph C, Fiber Optic Communications, 5th Edition, Pearson/Prentice-Hall, 2005. (TK5103.59.P154 2005) 4. Ramswami Rajiv and Sivarajan Kumar N, Optical Networks: A Practical Perspective, 3rd Edition, Morgan Kaufmann 2008.
EE4151 RF AND MICROWAVE ENGINEERING	
1. Pozar David M, Microwave Engineering, 3rd Edition, John Wiley, 2005. (TK7876.P893 2005)	1. Ramo Simon, Whinnery J R and Van Duzer T, Fields and Waves in Communication Electronics, 3rd Edition, John Wiley, 1994. (QC665.E4R175 1994) 2. Hong Jia-Sheng and Lancaster M J, Microstrip Filters for RF/Microwave Applications, John Wiley, 2001. (TK7876.H769)
EE4152 DIGITAL COMMUNICATIONS	
1. Proakis John G and Salehi Masoud, Communication Systems Engineering, 2nd Edition, Prentice-Hall, 2002. (TK5101.P962 2002)	1. Haykin Simon S, Communication Systems, 5th Edition, John Wiley, 2010. (TK5101.H419 2010) 2. Lathi Bhagwandas Pannalal, Modern Digital and Analog Communication Systems, 4th Edition, Oxford University Press, 2009. (TK5101.L352 2009)
EE4153 TELECOMMUNICATION SYSTEMS	
1. Flood John Edward, Telecommunications Switching, Traffic and Networks, Prentice-Hall, 1995 (reprinted 1999). (TK5103.F631) 2. Tomasi Wayne, Electronic Communications System: Fundamentals Through Advanced, 5th Edition, Pearson Prentice-Hall, 2005. (TK5101.T655E 2004)	1. Keiser Gerd, Optical Fibre Communications, 3rd Edition, McGraw Hill, 2000. (TK5103.59.K27 2000) 2. Beasley Jeffrey S and Miller Gray M, Modern Electronic Communication, 9th Edition, Pearson/Prentice-Hall, 2008. (TK5101.M648 2008) 3. Bellamy John C, Digital Telephony, 3rd Edition, John Wiley, 2000. (TK5103.7.B435 2000)
EE4188 WIRELESS COMMUNICATIONS	
1. Rappaport Theodore S, Wireless Communications: Principles and Practice, 2nd Edition, Prentice-Hall, 2002. (TK5103.2.R221 2002) 2. Agrawal Dharma Prakash and Zeng Qing-An, Introduction to Wireless and Mobile Systems, 2nd Edition, Thomson Nelson, 2006. (TK5103.2.A277 2006)	1. Freeman Roger L, Radio System Design for Telecommunications, 3rd Edition, IEEE/Wiley-Interscience, 2007. (TK6553.F855 2007) 2. Garg Vijay Kumar, Wireless Communications and Networking, Elsevier Morgan Kaufmann, 2007, (TK5103.2.G231WC) 3. Goldsmith Andrea, Wireless Communications, Cambridge University Press, 2005, (TK5103.2.G624)

7 TEXTBOOKS AND REFERENCES FOR EEE COURSES

TEXTBOOK(S)	REFERENCE(S)
EE4189 SPREAD SPECTRUM COMMUNICATIONS	
1. Sklar Bernard, Digital Communications: Fundamentals and Applications, 2nd Edition, Prentice-Hall, 2001. (TK5103.7.S628 2001)	1. Ziemer Rodger E and Peterson Roger L, Introduction to Digital Communication, Prentice-Hall, 2001. (TK5103.7.Z66I) 2. Lathi Bhagwandas Pannalal, Modern Digital and Analog Communication Systems, 4th Edition, Oxford University Press, 2009. (TK5101.L352 2009) 3. Haykin Simon S, Communication Systems, 5th Edition, John Wiley, 2010. (TK5101.H419 2010) 4. Dixon Robert Clyde, Spread Spectrum Systems: With Commercial Applications, 3rd Edition, John Wiley, 1994. (TK5102.5.D621 1994)
EE4207 CONTROL ENGINEERING DESIGN	
	1. Maciejowski Jan Marian, Predictive Control with Constraints, Prentice-Hall, 2002.(TJ217.6.M152) 2. Gopal M, Digital Control and State Variable Methods : Conventional and Neural-Fuzzy Control Systems, 3rd Edition, TaTa-McGraw Hill, 2009. (TJ223.M53G659D 2008).
EE4208 INTELLIGENT SYSTEMS DESIGN	
	1. Haralick Robert M and Shapiro Linda G, Computer and Robot Vision, Addison-Wesley, 1993. (TA1632.H254)
EE4265 PROCESS CONTROL SYSTEMS	
1. Seborg Dale E, Edgar Thomas F and Mellichamp Duncan A, Process Dynamics and Control, 3rd Edition, Wiley, 2011. (TP155.75.S443 2011)	1. Ogunnaike Babatunde A and Ray W Harmon, Process Dynamics, Modeling and Control, Oxford University Press, 1994. (TP155.75.G35) 2. Luyben Michael L and Luyben William L, Essentials of Process Control, McGraw-Hill, 1997. (TP155.75.L978) 3. Shinskey F Greg, Process Control Systems: Application, Design and Tuning, 4th Edition, McGraw-Hill, 1996. (TP155.75.S556 1996)
EE4266 COMPUTER VISION	
1. Gonzalez Rafael C, Digital Image Processing, 3rd Edition, Prentice-Hall, 2008. (TA1632.G643 2008)	1. Awcock G J and Thomas Ray, Applied Image Processing, McGraw-Hill, 1996. (TA1637.A965) 2. Duda Richard O, Hart Peter E and Stork David G, Pattern Classification, 2nd Edition, John Wiley, 2001. (Q327.D844 2001)
EE4268 ROBOTICS AND AUTOMATION	
1. Craig John J, Introduction to Robotics: Mechanics and Control, 3rd Edition, Prentice-Hall, 2005. (TJ211.C886 2005)	1. Schilling Robert J, Fundamentals of Robotics: Analysis and Control, Prentice-Hall, 1990. (TJ211.S334) 2. Niku Saeed B, An Introduction to Robotics Analysis, Systems, Applications, Prentice-Hall, 2001. (TJ211.N694)
EE4273 DIGITAL CONTROL SYSTEMS	
1. Ogata Katsuhiko, Discrete-Time Control Systems, 2nd Edition, Prentice-Hall, 1995. (QA402.G34 1995) 2. Franklin Gene F, Powell J David and Workman Michael L, Digital Control of Dynamic Systems, 3rd Edition, Addison-Wesley, 1998. (TJ223.M53F831 1998)	1. Astrom Karl Johan and Wittenmark Bjorn, Computer-Controlled Systems: Theory and Design, 3rd Edition, Prentice-Hall, 1997. (TJ213.A859 1997) 2. Phillips Charles L and Nagle H Troy, Digital Control System Analysis and Design, 3rd Edition, Prentice-Hall, 1995. (TJ223.M53P558 1995) 3. Gopal M, Digital Control and State Variable Methods: Conventional and Neural-Fuzzy Control Systems, 3rd Edition, Tata-McGraw Hill, 2008. (TJ223.M53G659D 2008)

TEXTBOOK(S)	REFERENCE(S)
EE4285 COMPUTATIONAL INTELLIGENCE	
1. Buckley, James J and Eslami, Esfandiar, An introduction to fuzzy logic and fuzzy sets, Physica-Verlag, 2002. (QA76.9.S63B924) 2. Zurada Jacek M, Introduction to Artificial Neural Systems, West, 1992. (QA76.87.Z96) 3. Back Thomas, Evolutionary Algorithms in Theory and Practice: Evolution Strategies, Evolutionary Programming, Genetic Algorithms, Oxford University Press, 1996. (QA402.5.B365)	1. Terano Toshiro, Asai Kiyoji and Sugeno Michio, Fuzzy Systems Theory and its Applications, Academic Press, 1992. (QA248.T315) 2. Lin Ching Tai and Lee C S George, Neural Fuzzy Systems: A Neuro-Fuzzy Synergism to Intelligent Systems, Prentice-Hall, 1996. (TJ217.25.L735)
EE4303 MIXED-SIGNALIC DESIGN	
1. Sansen Wiley M C, Analog Design Essentials, Springer, 2006. (TK7874.654.S229)	1. Baker R Jacob, CMOS: Circuit Design, Layout, and Simulation, 3rd Edition, IEEE Press, 2010. (TK7871.99.M44B168 2008) 2. Gray Paul R, Analysis And Design Of Analog Integrated Circuits, 5th Edition, Wiley, 2009. (TK7874.G781 2009)
EE4304 RADIO FREQUENCY INTEGRATED SYSTEM DESIGN	
1. Razavi Behzad, RF Microelectronics, Prentice-Hall, 1998. (TK6560.R278)	1. Yeo Kiat Seng, Do Manh Anh and Boon Chirn Chye, Design of CMOS RF Integrated Circuits and Systems, World Scientific, 2010. (TK7874.78.Y46) 2. Couch Leon W, Digital and Analog Communication Systems, 7th Edition, Pearson/Prentice-Hall, c2007. (TK5101.C853 2007) 3. Razavi Behzad, Design of Analog CMOS Integrated Circuits, McGraw-Hill, 2001. (TK7874.654.R278)
EE4305 DIGITAL DESIGN USING HDL	
1. Yalamanchili Sudhakar, VHDL: A Starter's Guide, 2nd Edition, Pearson/Prentice Hall, 2005. (TK7885.7.Y16 2005)	1. Roth, Charles H and John Lizy Kurian, Digital Systems Design using VHDL, 2nd Edition, Thomson, 2008. (TK7888.4.R845D 2008) 2. Chu Pong P, RTL hardware design using VHDL, John Wiley, 2006. (TK7868.D5C559)
EE4340 VLSI SYSTEMS	
1. Dally William J and Poulton John W, Digital Systems Engineering, Cambridge University Press, 1998. (TK7888.3.D147)	1. Hayes John Patrick, Computer Architecture and Organization, 3rd Edition, McGraw-Hill, 1998. (QA76.9.A73H417 1998) 2. Mano M Morris and Kime Charles R, Logic and Computer Design Fundamentals, 4th Edition, Pearson/Prentice-Hall, 2008. (TK7888.4.M285 2008) 3. Stallings William, Computer Organization and Architecture: Designing for Performance, 8th Edition, Prentice-Hall, 2010. (QA76.9.C643S782 2010) 4. Rabaey Jan M, Chandrakasan Anantha and Borivoje Nikolic, Digital Integrated Circuits: A Design Perspective, 2nd Edition, Pearson Education, 2003. (TK7874.65.R112 2003) 5. Wolf Wayne, Modern VLSI Design: System-on-chip Design, 3rd Edition, Prentice Hall, 2002. (TK7874.65.W855 2002)

9 TEXTBOOKS AND REFERENCES FOR EEE COURSES

TEXTBOOK(S)	REFERENCE(S)
EE4341 ADVANCED ANALOG CIRCUITS	
1. Franco Sergio, Design with Operational Amplifiers and Analog Integrated Circuits, 3rd Edition, McGraw-Hill, 2002. (TK7874.F825 2002)	1. Toumazou Chris, Lidgey F J and Haigh David G, Analogue IC Design: The Current-Mode Approach, Peregrinus, 1990. (TK7874.A532) 2. Davidse J, Analogue Electronic Circuit Design, Prentice-Hall, 1991. (TK7874.D251A) 3. Gray Paul R, Analysis and Design of Analog Integrated Circuits, 5th Edition, John Wiley, 2009. (TK7874.G781 2009) 4. Sanchez-Sinencio Edgar and Andreou Andreas G, Low-Voltage/Low-Power Integrated Circuits and Systems: Low-Voltage Mixed Signal Circuits, IEEE Press, 1999. (TK7874.66.L922)
EE4343 RADIO FREQUENCY CIRCUITS	
1. Ludwig Reinhold and Bretchko Pavel, RF Circuit Design: Theory and Applications, 2nd Edition, Prentice-Hall, 2008.	1. Smith Jack R, Modern Communication Circuits, 2nd Edition, McGraw-Hill, 1998. (TK6553.S651 1998) 2. White Joseph F, High Frequency Techniques : An Introduction to RF and Microwave Engineering, IEEE Press, 2004. (TK7876.W585H) 3. Wolaver Dan H, Phase-Locked Loop Circuit Design, Prentice-Hall, 1991. (TK7872.P38W848)
EE4344 ANALYSIS AND DESIGN OF INTEGRATED CIRCUITS	
1. Allen Phillip E and Holberg Douglas R, CMOS Analog Circuit Design, 2nd Edition, Oxford University Press, 2002. (TK7874.A428 2002) 2. Weste Neil H E and Harris David Money, CMOS VLSI Design: A Circuit and Systems Perspective, 4th Edition, Addison Wesley, 2011. (TK7874.W525 2011)	1. Rabaey Jan M, Chandrakasan Anantha P and Nikolic Borivoje, Digital Integrated Circuits: A Design Perspective, 2nd Edition, Pearson Education, 2003. (TK7874.65.R112 2003) 2. Sansen Wiley M C, Analog Design Essentials, Springer, 2006. (TK7874.654.S229) 3. Johns David A and Ken Martins, Analog Integrated Circuit Design, John Wiley & Sons, 1997. (TK7874.J65)
EE4413 DSP SYSTEM DESIGN	
	1. Mitra, Sanjit Kumar, Digital Signal Processing : a Computer Based Approach, , 3rd Edition, McGraw-Hill, 2006 (TK5102.9.M684 2006) 2. Proakis John G and Manolakis Dimitris G, Digital Signal Processing: Principles, Algorithms and Applications, 4th Edition, Prentice-Hall, 2006. 3. Kuo Sen M, Lee Bob H andTian Wenshun, Real-Time Digital Signal Processing: Implementations and Applications, 2nd Edition, John Wiley, c2006. (TK5102.9.K96R 2006) 4. Oppenheim Alan V, Schafer Ronald W, and Buck John R, Discrete-Time Signal Processing, 3rd Edition, Prentice-Hall, 2009. 5. Lapsley Phil, DSP Processor Fundamentals: Architectures and Features, IEEE Press, 1997. (TK5102.9.D811) 6. Ackenhusen John G, Real Time Signal Processing: Design and Implementation of Signal Processing Systems, Prentice-Hall, 1999. (TK5102.9A182)

TEXTBOOK(S)	REFERENCE(S)
EE4455 EMBEDDED SYSTEMS	
1. Wolf Wayne, High-Performance Embedded Computing: Architectures, Applications, and Methodologies, 1st Edition, Elsevier/Morgan Kaufmann, 2007 (TK7895.E42W855) 2. Gan Woon-Seng and Kuo Sen M, Embedded Signal Processing with the Micro Signal Architecture, Wiley-Interscience, 2007. (TK5102.9.G195)	1. Katz David J and Gentile Rick, Embedded Media Processing, Elsevier/Newnes, 2006. (TK5102.9.K19) 2. Noergaard Tammy, Embedded Systems Architecture: A Comprehensive Guide for Engineers and Programmers, Elsevier/Newnes, 2005. (TK7895.E42N769) 3. Wolf Wayne Hendrix, Computers as Components: Principles of Embedded Computing System Design, 2nd Edition, Morgan Kaufmann, 2008. (QA76.9.S88W855 2008) 4. Kuo Sen M and Gan Woon-Seng, Digital Signal Processors: Architectures, Implementations and Applications, Pearson Prentice Hall, 2005 (TK5102.9.K96)
EE4475 AUDIO SIGNAL PROCESSING	
1. Bosi Marina and Goldberg Richard E, Introduction to Digital Audio Coding and Standards, Kluwer Academic, 2003. (TK7881.4.B743) 2. Kuo Sen M and Gan Woon-Seng, Digital Signal Processors: Architectures, Implementations and Applications, Pearson Prentice-Hall, 2005. (TK5102.9.K96) 3. Gardner William G, 3-D Audio Using Loudspeakers, Kluwer Academic, 1998. (TK7881.83.G228)	1. Pohlmann Ken C, Principles of Digital Audio, 5th Edition, McGraw-Hill, 2005. (TK7881.4.P748 2005) 2. Watkinson John, The Art of Digital Audio, 3rd Edition, Focal Press, 2001. (TK7881.4.W336 2001)
EE4476 IMAGE PROCESSING	
1. Gonzalez Rafael C and Woods Richard E, Digital Image Processing, 3rd Edition, Prentice Hall, 2008. (TA1632.G643 2008)	1. Pratt William K, Digital Image Processing: PIKS Inside, 4th Edition, John Wiley, 2007. (TA1632.P917 2007) 2. Pitas Ioannis, Digital Image Processing Algorithms and Applications, John Wiley, 2000. (TA1637.P681) 3. Jain Anil K, Fundamentals of Digital Image Processing, Prentice-Hall, 1989. (TA1632.J25)

TEXTBOOK(S)	REFERENCE(S)
EE4478 DIGITAL VIDEO PROCESSING	
1. Shi Yun Q and Sun Huifang, Image and Video Compression for Multimedia Engineering: Fundamentals, Algorithms, and Standards, 2nd Edition, CRC Press, 2008. (QA76.575.S555 2008) 2. Wang Yao, Ostermann Jeorn and Zhang Ya-Qin, Video Processing and Communications. Prentice Hall, 2002. (TK5105.2.W246)	1. Symes Peter, Digital Video Compression, McGraw-Hill, 2004. (TK6680.5.S986D) 2. Schaar Mihaela van der, Turaga Deepak S and Stockhammer Thomas, MPEG-4 Beyond Conventional Video Coding: Object Coding, Resilience, and Scalability, 1st Edition, Morgan & Claypool, 2006. (TK6680.5.S291) 3. Richardson Iain E G, The H.264 Advanced Compression: Standard, 2nd Edition, Wiley, 2010. (TK6680.5.R522 2010) 4. Tekalp A Murat, Digital Video Processing, Prentice-Hall, 1995. (TK6680.5.T266) 5. ISO/IEC 11172-2, Information Technology - Coding of Moving Pictures and Associated Audio for Digital Storage Media at up to about 1.5 Mbit/s, Part 2: Video, BSI, 1995. (QC100.B862 BS EN ISO/IEC 11172-2 1995) 6. ISO/IEC IS 13818-2, Information Technology - Generic Coding of Moving Pictures and Associated Audio Information: Video, 1995. (TK277.I85 ISO/IEC13818-2 1996(E)) 7. ISO/IEC IS 14496, Information Technology - Coding of Audio-Visual Objects - Part 2: Visual, Geneva, 1999. (TK277.I85 ISO/IEC14496-2(E))
EE4483 ARTIFICIAL INTELLIGENCE AND DATA MINING	
1. Luger George F, Artificial Intelligence : Structures and Strategies for Complex Problem Solving, 6th Edition, Addison-Wesley, 2008. 2. Dunham Margaret H, Data Mining Introductory and Advanced Topics, Pearson/Prentice-Hall, 2003. (QA76.9.D343D917)	1. Han Jiawei and Kamber Micheline, Data Mining: Concepts and Techniques, 2nd Edition, Elsevier / Morgan Kaufmann, 2006. (QA76.9.D343H233 2006) 2. S. Russell and P. Norvig, Artificial Intelligence A Modern Approach, 3rd Edition, Prentice Hall, 2010. (Q335.R967A 2010)
EE4490 MULTIMEDIA SYSTEMS	
1. Li Ze-Nian and Drew Mark S, Fundamentals of Multimedia, Pearson Prentice-Hall, 2004. (QA76.575.L693)	1. Steinmetz Ralf and Nahrstedt Klara, Multimedia: Computing, Communications and Applications, Prentice-Hall, 1997. (QA76.575.S823 1997)
EE4503 POWER ENGINEERING DESIGN	
1. Kasikci Ismail, Analysis and Design of Low-voltage Power Systems: An Engineer's Field Guide, 1st Edition, Wiley-VCH, 2004. (TK1001.K19) 2. Blackburn J Lewis and Domin thomas J, Protective Relaying: Principles and Applications, 3rd Edition, CRC Press, 2007. (TK2861.B628 2007)	1. Code of Practice for Electrical Installations, (Singapore Standards, CP5 1998), Singapore Productivity and Standards Board, 1998. (QC100.S617 CP5 1998) 2. Anderson Paul M, Power System Protection, 1st Edition, McGraw-Hill, 1999. (TK1010.A548)
EE4504 DESIGN OF CLEAN ENERGY SYSTEMS	
1. Simões Marcelo Godoy and Farret Felix A, Renewable Energy Systems – Design and Analysis with Induction Generators, CRC Press, 2004. (TJ808.S593) 2. Green M A, Third Generation Photovoltaics Advanced Solar Energy Conversion, Springer, 2006.	3. Thomas Ackemann, Wind Power in Power Systems, John Wiley, 2005. (TK1541.W763)

TEXTBOOK(S)	REFERENCE(S)
EE4530 POWER SYSTEM ANALYSIS AND CONTROL	
1. Saadat Hadi, <u>Power System Analysis</u>, 2nd Edition, McGraw-Hill, 2002 (TK1001.S111 2002)	1. Weedy Birron Mathew and Cory Brian John, <u>Electric Power Systems</u>, 4th Edition, John Wiley, 1998. (TK1001.W394 1998) 2. Grainger John J and Stevenson William D, <u>Power System Analysis</u>, McGraw-Hill, 1994. (TK3001.G743)
EE4532 POWER ELECTRONICS AND DRIVES	
1. Mohan Ned, Undeland Tore M and Robbins William P, <u>Power Electronics: Converters, Applications and Design</u>, 3rd Edition, John Wiley, 2003. (TK7881.15.M697 2003) 2. Rashid M H, <u>Power Electronics: Circuits, Devices & Applications</u>, 3rd Edition, Pearson/Prentice Hall, 2004. (TK7881.15.r224 2004)	1. Krein Philip T, <u>Elements of Power Electronics</u>, 1st Edition, Oxford University Press, 1998. (TK7881.15.K92) 2. Erickson Robert Warren and Maksimovic Dragan, <u>Fundamentals of Power Electronics</u>, 2nd Edition, Kluwer Academic/Springer, 2001. (TK7881.15.E68 2001)
EE4533 POWER APPARATUS AND SYSTEM PROTECTION	
1. Haddad A and Warne D F, <u>Advances in High Voltage Engineering</u>, IEE (IEE Power and Energy Series), 2004. (TK153.A244) 2. Blackburn J Lewis, <u>Protective Relaying: Principles and Applications</u>, 3rd Edition, CRC Press, 2007.	1. Bergen Arthur R and Vittal Vijay, <u>Power System Analysis</u>, 2nd Edition, Prentice-Hall, 2000. (TK1001.B495 2000) 2. Grainger John J and Stevenson William D, <u>Power System Analysis</u>, McGraw-Hill, 1994. (TK3001.G743) 3. Naidu M S and Kamaraju V, <u>High Voltage Engineering</u>, 2nd Edition, McGraw-Hill, 1996. (TK3001.N155 1996) 4. Ram Badri and Vishwakarma D N, <u>Power System Protection and Switchgear</u>, 1st Edition, McGraw-Hill, 1995. (1st Printing) (TK2861.R165)
EE4534 MODERN DISTRIBUTION SYSTEMS WITH RENEWABLE RESOURCES	
1. Pabla A S, <u>Electric Power Distribution</u>, 5th Edition, McGraw-Hill, 2005. (TK3001.P112E 2005) 2. Masters Gilbert M, <u>Renewable and Efficient Electric Power Systems</u>, John Wiley, 2004. (TK1005.M423)	1. Dugan Roger C, McGranaghan M F, Santoso S and Beaty H Wayne, <u>Electrical Power Systems Quality</u>, 2nd Edition, McGraw-Hill, 2003. (TK1010.D866 2003) 2. Boyle Godfrey, <u>Renewable Energy: Power for A Sustainable Future</u>, 2nd Edition, Oxford University Press, 2004. (TJ808.R411RE 2004) 3. Larminie James and Dicks Andraw, <u>Fuel Cell Systems Explained</u>, 2nd Edition, John Wiley, 2003. (TK2931.L324 20030)
EE4613 CMOS PROCESS AND DEVICE SIMULATION	
	1. Arora Narain, <u>MOSFET Modeling for VLSI Simulation: Theory and Practice</u>, World Scientific, 2007. (TK7871.95.A769M) 2. Tsividis Yannis, <u>Operation and Modeling of the MOS Transistor</u>, 2nd Edition, WCB/McGraw-Hill, 1999. (TK7871.99.M44T882 1999) 3. Kramer Kevin M and Hitchon W Nicholas G, <u>Semiconductor Devices: A Simulation Approach</u>, Prentice-Hall, 1997. (TK7871.85.K89)

TEXTBOOK(S)	REFERENCE(S)
EE4614 DEVICE PARAMETER EXTRACTION AND LAYOUT IMPLEMENTATION	
	1. Synopsis TCAD Manual – MEDICI. 2. Schroder Dieter K, Semiconductor Material and Device Characterization, 3rd Edition, IEEE Press, 2006. (QC611.S381 2006) 3. Liou Juin J, Ortiz-Conde Adelmo and Garcia-Sanchez F, Analysis and Design of MOSFETs – Modeling, Simulation, and Parameter Extraction, Kluwer Academic Publishers, 1999. (TK7871.95 L763) 4. Rabaey Jan M, Chandrakasan Anantha, and Nikolic Borivoje, Digital Integrated Circuits: A Design Perspective, 2nd Edition, Pearson Education, 2003. (TK7874.65.R112 2003)
EE4645 MICROFABRICATION ENGINEERING	
1. Stephen A. Campbell, Fabrication Engineering at the Micro- and Nanoscale, 3rd Edition, Oxford University Press, 2008. (TK7871.85.C191F)	1. Mahajan Subhash and SreeHarsha K S, Principles of Growth and Processing of Semiconductors, WCB/McGraw-Hill, 1999. (TK7871.85.M214) 2. Van Zant Peter, Microchip Fabrication: A Practical Guide to Semiconductor Processing, 5th Edition, McGraw-Hill, 2004. (TK7871.85.V217 2004) 3. Ghandhi Sorab Khushro, VLSI Fabrication Principles: Silicon and Gallium Arsenide, 2nd Edition, John Wiley, 1994. (TK7874.G411 1994)
EE4646 VLSI TECHNOLOGY	
1. Wolf Stanley and Tauber Richard N, Silicon Processing for the VLSI Era, Vol.1, 2nd Edition, Lattice Press 2000 (TK7874.W855 2000 V1) 2. Chang C Y and Sze S M, ULSI Devices, John/Wiley 2000 (TK7874.76.U46D)	1. Kuo James B and Lin Shih-Chia, Low-Voltage SOI CMOS VLSI Devices and Circuits, Wiley, 2001. (E-Book) (TK7874.66.K96V) 2. Houssa Michel, High-k Gate Dielectrics, Institute of Physics, 2004. (TK7871.99.M44H638K)
EE4647 MICROELECTRONIC DEVICES	
1. Sze S M, Semiconductor Devices, Physics and Technology, 2nd Edition, John Wiley, 2002. (TK7871.85.S997 2002) 2. Neamen Donald A, Semiconductor Physics and Devices: Basic Principles, 3rd Edition, McGraw-Hill, 2003. (QC611.N348 2003)	1. Dimitrijev Sima, Understanding Semiconductor Devices, Oxford University Press, 2000 (TK7871.85.D582)
EE4648 FLAT PANEL DISPLAY TECHNOLOGIES	
	1. Keller Peter A, Electronic Display Measurement: Concepts, Techniques, and Instrumentation, John Wiley 1997. (TK7882.I6K29) 2. Yeh Pochi and Gu Claire, Optics of Liquid Crystal Displays, 2nd Edition, John Wiley 2010. (TK7872.L56Y43 2010) 3. Sherr Sol, Applications for Electronic Displays Technologies and Requirements, John Wiley, 1998. (TK7882.I6S553 1998) 4. Lueder Ernst, Liquid Crystal Displays : Addressing Schemes and Electro-Optical Effects, 2nd Edition, John Wiley, 2010. (TK7872.L56L948C)
EE4694 IC RELIABILITY AND FAILURE ANALYSIS	
1. Ebeling Charles E, An Introduction to Reliability and Maintainability Engineering, 2nd Edition, Waveland Press, 2010. (TA169.E15 2010)	1. Ohring Milton, Reliability and Failure of Electronic Materials and Devices, Academic Press, 1998. (TK7870.23.H38) 2. O'Connor Patrick D T and Newton David, Practical Reliability Engineering, 4th Edition, Wiley, 2002 (TS173.C18 2002)

14 TEXTBOOKS AND REFERENCES FOR EEE COURSES

TEXTBOOK(S)	REFERENCE(S)
EE4695 SEMICONDUCTOR PHYSICS	
1. Omar M Ali, Elementary Solid State Physics: Principles and applications, Addison-Wesley Publishing Co., 1993. (QC176.M54) 2. McKelvey John Philip, Solid State Physics for Engineering and Materials Science, Krieger Publishing Co, 1993. (QC176.M154)	1. Kittel Charles and McEuen Paul, Introduction to Solid State Physics, 8th Edition, John Wiley, 2005. (QC176.K62 2005) 2. Singh Jasprit, Physics of Semiconductors and their Heterostructures, McGraw-Hill, 1993. (QC611.S617)
EE4717 WEB APPLICATION DESIGN	
	1. Grove Ralph F, Web-based Application Development, Jones and Bartlett Publishers, 2010. (TK5105.888.G883) 2. Deitel Paul J, Java : How to Program. Pearson Prentice Hall, 2010. (QA76.73.J38D325 2010) 3. Metlapalli Prabhakar, JavaServer Pages Illuminated, Jones and Bartlett Publishers, 2008. (TK5105.8885.J38M592) 4. Kurniawan Budi, Struts Design and Programming : A Tutorial, 1st Edition, BrainySoftware.com, 2005. (TK5105.8885.S76K96)
EE4718 ENTERPRISE NETWORK DESIGN	
	1. Leon-Garcia Alberto and Widjaja Indra, Communication Networks: Fundamental Concepts and Key Architectures, 2nd Edition, McGraw-Hill, 2004. (TK5101.L579 2004) 2. Kurose James F and Ross Keith W, Computer Networking: A Top-Down Approach, 5th Edition, Pearson/Addison-Wesley, c2010. (TK5105.875.I57K96 2010) 3. CCIE Fundamentals: Network Design and Case Studies, 2nd Edition, Cisco Press, 2002. (TK5105.5.C386)
EE4756 COMPUTER ARCHITECTURE	
1. Hennessy John L and Patterson David A, Computer Architecture: A Quantitative Approach, 3rd Edition, Morgan Kaufmann, 2003. (QA76.9.A73H515 2003).	1. Hennessy John L and Patterson David A, Computer Architecture: A Quantitative Approach, 4th Edition, Morgan Kaufmann, 2007. (QA76.9.A73H515 2007) 2. Patterson David A and Hennessy John L, Computer Orgnaization and Design: The Hardware/Software Interface, 4th Edition, Elsevier/Morgan Kaufmann, 2009. (QA76.9.C643P317 2009) 3. Baron Robert J and Higbie Lee, Computer Architecture, Addison-Wesley, 1992. (QA76.9.A73B265)
EE4758 COMPUTER SECURITY	
1. Stallings William, Cryptography and Network Security: Principles and Practice, 5th Edition, Pearson/Prentice- Hall, 2011. (TK5105.59.S782C 2011)	1. Bishop Matt, Introduction to Computer Security, Addison-Wesley, 2004. (QA76.9.A25B622T) 2. Pieprzyk Josef, Hardjono Thomas and Seberry Jennifer, Fundamentals of Computer Security, Springer, 2003. (QA76.9.A25P614)

15 TEXTBOOKS AND REFERENCES FOR EEE COURSES

TEXTBOOK(S)	REFERENCE(S)
EE4761 COMPUTER NETWORKING	
1. Kurose James F and Ross Keith W, Computer Networking: A Top-Down Approach, 5th Edition, Addison-Wesley, c2010. (TK5105.875.I57K96 2010)	1. Leon-Garcia Alberto and Widjaja Indra, Communication Networks: Fundamental Concepts and Key Architectures, 2nd Edition, McGraw-Hill, 2004. (TK5101.L579 2004) 2. Stallings William, Data and Computer Communications, 8th Edition, Pearson/Prentice-Hall, c2007. (TK5105.S782 2007) 3. Comer Douglas E, Internetworking with TCP/IP, 5th Edition, Pearson Prentice-Hall, 2006. (TK5105.585.C732 2006)
EE4791 DATABASE SYSTEMS	
1. Hoffer Jeffrey A, Ramesh V and Topi Heikki, Modern Database Management, 10th Edition, Pearson/Prentice-Hall, 2011. (QA76.9.D3M143 2011)	1. Connolly Thomas M and Begg Carolyn E, Database Systems: A Practical Approach to Design, Implementation, and Management, 5th Edition, Addison-Wesley, 2010. (QA76.9.D26C752 2010) 2. Elmasri Ramez and Navathe Shamkant, Fundamentals of Database Systems, 6th Edition, Pearson Addison-Wesley, 2011. (QA76.9.D3E48 2011) 3. Date C J, An Introduction to Database Systems, 8th Edition, Addison-Wesley, 2004. (QA76.9.D3D232 2004) 4. Coronel Carlos, Morris Steven and Rob Peter, Database Systems: Design, Implementation, and Management, 9th Edition, Course Technology, 2011. (QA76.9.D26R628 2011)
EE4815 OPTICAL DESIGN	
1. Smith Warren J, Modern Optical Engineering: The Design of Optical Systems, 4th Edition, McGraw-Hill, 2008. (TS513.S663 2008) 2. Kelin J. Kuhn, Laser Engineering, Prentice Hall, 1998. (TA1675.K96)	1. Hecht Eugene, Optics, 4th Edition, Addison-Wesley, 2002. (QC355.2.H447 2002) 2. Fischer Robert Edward and Tadic-Galeb Biljana, Optical System Design, McGraw-Hill, 2008. (TK8315.F529 2008) 3. Meyrueis Patrick and Kress B, Digital Diffractive Optics: An Introduction to Planar Diffractive Optics and related Technology, John Wiley, 2000. (TA1750.M615)
EE4816 PHOTONIC DEVICES: DESIGN AND CHARACTERIZATION	
1. Nelson Jenny, The Physics of Solar Cells, Imperial College Press, 2003. (TK2960.N427)	1. Chuang Shun Lien, Physics of Photonic Devices, 2nd Edition, Wiley 2009. (QC673.C559P) 2. Pierret Robert F, Advanced Semiconductor Fundamentals, 2nd Edition, Prentice Hall, 2003. (TK7871.85.P623 2003) 3. Singh Jasprit, Optoelectronics An Introduction to Materials and Devices, McGraw-Hill, 1996. (TA1750.S617) 4. Kasap Safa O, Principles of Electronic Materials and Devices, 3rd Edition. McGraw-Hill, 2006. (TK453.K19 2006)

TEXTBOOK(S)	REFERENCE(S)
EE4836 SEMICONDUCTOR OPTOELECTRONICS	
1. Kasap Safa O, Optoelectronics and Photonics: Principles and Practices, Prentice-Hall, 2001. (TK8304.K19) 2. Nelson Jenny, The Physics of Solar Cells, Imperial College Press, 2003. (TK2960.N427)	1. Pierret Robert F, Advanced Semiconductor Fundamentals, 2nd Edition, Prentice Hall, 2003. (TK7871.85.P623 2003) 2. Kasap Safa O, Principles of Electronic Materials and Devices, 3rd Edition. McGraw-Hill, 2006. (TK453.K19 2006) 3. Chuang Shun Lien, Physics of Photonic Devices, 2nd Edition, Wiley 2009. (QC673.C559P) 4. Singh Jasprit, Electronic and Optoelectronic Properties of Semiconductor Structures, Cambridge University Press, 2003. (QC611.6.E45S617) 5. Soga Tetsuo, Nanostructured Materials for Solar Energy Conversion, 1st Edition, Elsevier, 2006. (TK2960.N186)
EE4838 LASER ENGINEERING AND APPLICATIONS	
1. Svelto Orazio, Principles of Lasers, 5th Edition, Springer, 2010.	1. Graham-Smith Francis Sir, King Terry A and Wilkins Dan, Optics and Photonics: An Introduction, 2nd Edition, John Wiley, c2007. (QC446.2.G742 2007) 2. Vij D R and Mahesh K, Medical Applications of Lasers, Kluwer Academic, 2002. (R857.L37M489)
EE4839 FIBRE OPTIC COMMUNICATIONS	
1. Hecht Jeff, Understanding Fiber Optics, 5th Edition, Pearson/Prentice-Hall 2006. (TA1800.H447 2006)	1. Dutton Harry J R, Understanding Optical Communications, Prentice-Hall, 1998. (TK5103.59.D981) 2. Palais Joseph C, Fiber Optic Communications, 5th Edition, Pearson/Prentice-Hall, 2005. (TK5103.59.P154 2005) 3. Derickson Dennis, Fiber Optic Test and Measurement, Prentice-Hall, 1998. (TK5103.59.D433) 4. Ramaswami Rajiv and Sivarajan Kumar N, Optical Networks: A Practical Perspective, 3rd Edition, Morgan Kaufmann, 2008.
EE4840 BIOPHOTONICS	
1. Prasad Paras N, Introduction to Biophotonics, Wiley-Interscience, 2003. (QH515.P911)	1. Tözeren Aydin and Byers Stephen W, New Biology for Engineers and Computer Scientists, Pearson/Prentice Hall, 2004. (QH506.T314) 2. Niemz Markolf H, Laser-Tissue Interactions [electronic resource]: Fundamental and Applications, 3rd Edition, Springer, 2007. 3. Vo-Dinh Tuan, Biomedical Photonics Handbook, CRC Press, 2003. (R857.O6.B615B)
EE4901 BIOMEDICAL CONTROL SYSTEMS DESIGN	
	1. Khoo Michael C K, Physiological Control Systems : Analysis, Simulation and Estimation, IEEE Press, 2000. (QP33.6.M36K45) 2. Kuo Benjamin C and Golnaraghi Farid, Automatic Control Systems, 9th Edition, John Wiley, 2008. 3. Little John N, Control System Toolbox for Use with MATLAB : User's Guide, The Math Works, Inc. 1998. (QA297.C764)

17 TEXTBOOKS AND REFERENCES FOR EEE COURSES

TEXTBOOK(S)	REFERENCE(S)
EE4902 DESIGN OF MEDICAL INFORAMTION PROCESSING SYSTEMS	
	1. Bruce Eugene N, Biomedical Signal Processing and Signal Modeling, John Wiley, 2001. (R857.S47B886) 2. Proakis John G and Manolakis Dimitris G, Digital Signal Processing: Principles, Algorithms and Applications, 4th Edition, Pearson Prentice-Hall, c2007. (TK5102.9.P932) 3. Blake Andrew and Isard Michael, Active Contours: The Application of Techniques from Graphics, Vision, Control Theory and Statistics to Visual Tracking of Shapes in Motion, Springer, 1998. (TA1634.B636)
EE4903 PHYSIOLOGICAL SYSTEMS ANALYSIS	
	1. Widmaier Eric P, Raff Hershel, Strang Kevin T and Vander Arthur J, Vander's Human Physiology: The Mechanisms of Body Function, 11th Edition, McGraw-Hill, c2008. 2. Khoo Michael C K, Physiological Control Systems: Analysis, Simulation, and Estimation, IEEE Press, 2000. (QP33.6.M36K45) 3. Marieb Elaine Nicpon, Essentials of Human Anatomy and Physiology, 9th Edition, Pearson/Benjamin Cummings, 2009. (QP34.5.M334 2009) 4. Silverthorn Dee Unglaub, Human Physiology : An Integrated Approach, 4th Edition, Pearson/Benjamin Cummings, c2007. (QP34.5.S587 2007)
EE4904 BIOMEDICAL INSTRUMENTATION	
1. Webster John G and Webster John W, Medical Instrumentation: Application and Design, 4th Edition, John Wiley, 2010. 2. Carr, Joseph J and Brown John M, Introduction to Biomedical Equipment Technology, 4th Edition, Prentice Hall 2001. (R856.C311 2001)	1 Brown B H, Medical Physics and Biomedical Engineering, Institute Of Physics, 1999. (R895.M489) 2 Bushberg Jerrold T, Seibert J A, Leidholdt E M and Boone J M, The Essential Physics of Medical Imaging, 2nd Edition, Lippincolt Williams & Wilkins, 2002. (RC78.7.D53E78) 3 Ganong William F, Review of Medical Physiology, 22th Edition, Lange Medical Publications, 2005. (QP1.G198 22ND ED 2005)
EE4905 BIOMEDICAL SIGNAL PROCESSING	
	1. Bruce Eugene N, Biomedical Signal Processing and Signal Modeling, John Wiley, 2001. (R857.S47B886) 2. Northrop Robert B, Signals and Systems Analysis in Biomedical Engineering, 2nd Edition, CRC Press, 2010. (R856.N877 2010) 3. Proakis John G and Manolakis Dimitris G, Digital Signal Processing: Principles, Algorithms and Applications, 3rd Edition, Prentice-Hall, 1996. (TK5102.5.P962D 1996) 4. Webster John G and Clark John W, Medical Instrumentation: Application and Design, 4th Edition, John Wiley, 2010. (R856.M489 2010)

TEXTBOOK(S)	REFERENCE(S)
EE4906 MEDICAL IMAGING SYSTEMS	
1. Prince Jerry L and Links Jonathan M, Medical Imaging, Signals and Systems, Pearson Prentice Hall, 2006. (RC78.7.D53P955) 2. Gonzalez Rafael C and Woods Richard Eugene, Digital Image Processing, 3rd Edition, Prentice Hall, 2008. (TA1632.G643 2008)	1. Cho Z H, Jones Joie P, and Singh Manbir, Foundations of Medical Imaging, John Wiley, 1993. (RC78.7.D53C454) 2. Kak Avinash. C and Slaney Malcolm, Principles of Computerized Tomographic Imaging, Society of Industrial and Applied Mathematics, 2001. (RC78.7.T6K13) 3. Bushong Stewart C, Magnetic Resonance Imaging: Physical and biological Principles, 3rd Edition, Mosby, 2003. (RC78.7.N83B979 2003) 4. Bushberg Jerrold T, Seibert J A, Leidholdt E M and Boone J M, The Essential Physics of Medical Imaging, 2nd Edition, Lippincolt Williams & Wilkins, 2002. (RC78.7.D53E78) 5. Angelsen Bjorn A J, Ultrasound Imaging: Waves, Signals and Signal Processing, Emantec, 2000. (RC78.7.U4A584)