

List of Recommended Textbooks and References

TEXTBOOK(S)	REFERENCE(S)
FE1006 MATHEMATICS 1	
1. George B. Thomas, Jr., Maurice D. Weir and Joel Hass, Thomas' calculus, 12th edition, Addison-Wesley, 2010 (QA303.T456 2010)	1. Smith RT and Minton RB, Calculus: Concepts and Connections, McGraw Hill, 2006. 2. Kreysgiz E, Advanced Engineering Mathematics, 9th edition, John Wiley & Sons, 2006. 3. Howard Anton, IrlBivens, Stephen Davis, Calculus, 8th edition, Wiley, 2005 (QA303.A634 2005) 4. Frank Ayres and Elliott Mendelson, Schaum's outline of calculus, 5th edition, McGraw-Hill, 2009 (QA300.A985 2009)
FE1007 MATHEMATICS 2	
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FE1008 COMPUTING	
1. C for Engineers and Scientists: An Interpretive Approach by Harry H. Cheng ISBN: 0073376051, ISBN-13: 978-0073376059. Publisher: McGraw-Hill, Inc., 2010	1. P.J. Deitel and H.M. Deitel, C: how to program, 6th edition, Pearson/Prentice Hall, 2010 (QA76.73.C15D325 2010) 2. Engineering Problem Solving with C, 3/E Delores M. Etter ISBN-10: 013142971X ISBN-13: 9780131429710 Publisher: Prentice Hall, 2005
FE1011 PHYSICS	
	1. Physics for Scientists and Engineers, 8th Edition R A Serway, J W Jewett Jr Brooks Cole 2. College Physics: A Strategic Approach Randall D. Knight, Brian Jones, Stuart Field Addison Wesley
FE1012 PHYSICS A	
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List of Recommended Textbooks and References

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IM1001 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. LevitinAnany, Introduction to The Design & Analysis of Algorithms, 2nd Edition, 2007. (QA76.9.A43L666 2007)
IM1002 ANALOG ELECTRONICS	
1. Hayt William Hart, Kemmerly Jack E and Durbin Steven M, Engineering Circuit Analysis, McGraw Hill, 7th Edition, 2007. (TK454.H426 2007) 2. Jaeger Richard C and Blalock Travis N, Microelectronic Circuit Design, 3rd Edition, McGraw Hill, 2008. (TK7874.J22M 2008)	1. Nilsson James William and Riedel Susan A, Electric Circuits, Pearson/Prentice Hall, 8th Edition, 2008. (TK454.N712 2008) 2. RazaviBehzad, Fundamentals of Microelectronics, John Wiley, 2008. (TK7874.R278F 2008)
IM1003 OBJECT-ORIENTED PROGRAMMING	
1. Liang Y Daniel, Introduction to Java Programming: Comprehensive Version, 8th Edition, Pearson/Prentice Hall, 2010.	1. Deitel Paul J and Deitel H M, Java: How to Program, 8th Edition, Pearson Prentice Hall, 2010. (QA76.73.J38D325 2010) 2. Eckel Bruce, Thinking in Java, 4th Edition, Prentice Hall, 2006. (QA76.73.J38E19 2006)
IM1004 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)
IM1092 BASIC ENGINEERING PHYSICS	
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IM2001 SOFTWARE ENGINEERING	
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IM2002 MICROPROCESSORS	
1. Chan C C and Siyal M Y, Intel	1. Brey Barry B, The Intel Microprocessors :

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<p>Microprocessors: Design, Interfacing and Programming, 1st Edition, Prentice-Hall, 2007 (ISBN-13 978-981-06-7698-8)</p>	<p>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)</p> <p>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)</p> <p>3. Hall Douglas V, Microprocessors and Interfacing: Programming and Hardware, 2nd Edition, McGraw-Hill, 1992. (QA76.6.H175 1992)</p>
<p>IM2003 COMPUTER COMMUNICATIONS</p>	
<p>1. Ng Chee Hock and Ma Maode, Computer Communications, McGraw-Hill, 2009.</p>	<p>1. Stallings William, Data and Computer Communications, 8th Edition, Pearson/Prentice-Hall, c2007. (TK5105.S782 2007)</p> <p>2. Kurose James F and Ross Keith W, Computer Networking: A Top-Down Approach, 5th Edition, Addison-Wesley, 2010. (TK5105.875.I57K96 2010)</p> <p>3. Leon-Garcia Alberto and Widjaja Indra, Communication Networks: Fundamental Concepts and Key Architectures, 2nd Edition, McGraw-Hill, 2004. (TK5101.L579 2004)</p>
<p>IM2004 SIGNALS AND SYSTEMS</p>	
<p>1. M. J. Roberts, Fundamentals of Signals and Systems, McGraw-Hill, International Edition, 2008. (TK5102.9.R646F)</p>	<p>1. Oppenheim Alan V, Willsky Alan S and Nawab Syed Hamid, Signals and Systems, 2nd Edition, Prentice-Hall, 1997. (QA402.P62 1997)</p> <p>2. Haykin Simon S and Van Veen Barry, Signals and Systems, Wiley, 2nd Edition, 2003. (TK5102.5.H419)</p> <p>3. Mandal Mrinal Kr and Asif Amir, Continuous and Discrete Time Signals and Systems, 1st Edition, Cambridge University Pres, 2007. (QA402.M271)</p>
<p>IM2006 ENGINEERING MATHEMATICS I</p>	
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	Computing Sciences, 4th Edition, McGraw-Hill, 2003. (TA330.M662 2003)
IM2007 ENGINEERING MATHEMATICS II	
1. Kreyszig Erwin, <u>Advanced Engineering Mathematics</u> , 9th Edition, John Wiley, 2006. (QA401.K92 2006)	<ol style="list-style-type: none"> 1. Greenberg Michael D, <u>Advanced Engineering Mathematics</u>, 2nd Edition, Prentice-Hall, 1998. (TA330.G798 1998) 2. James Glyn, <u>Advanced Modern Engineering Mathematics</u>, 3rd Edition, Pearson Prentice-Hall, 2004. (TA330.A244 2004) 3. ErMengJoo, <u>Engineering Mathematics with Real-World Applications</u>, McGraw Hill, 2005.
IM3001 DIGITAL SIGNAL PROCESSING	
<ol style="list-style-type: none"> 1. Oppenheim Alan V and Schafer Ronald W, <u>Discrete-Time Signal Processing</u>, Third Edition, Pearson, 2010. 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 	<ol style="list-style-type: none"> 1. Mitra Sanjit K, <u>Digital Signal Processing : A Computer Based Approach</u>, 3rd Edition, McGraw-Hill, 2006. (TK5102.9.M684 2006)
IM3002 COMMUNICATION PRINCIPLES	
<ol style="list-style-type: none"> 1. Couch Leon W, <u>Digital and Analog Communication Systems</u>, 7th Edition, Prentice-Hall, 2007. (TK5101.C853 2007) 	<ol style="list-style-type: none"> 1. Proakis John G and Salehi Masoud, <u>Communication Systems Engineering</u>, 2nd Edition, Prentice-Hall, 2002. (TK5101.P962 2002) 2. Lathi Bhagwandas Pannalal, <u>Modern Digital and Analog Communication Systems</u>, 4th Edition, Oxford University Press, 2009. (TK5101.L352 2009) 3. Haykin Simon S and Moher Michael, <u>Communication Systems</u>, 5th Edition, John Wiley, 2010. (TK5101.H419 2010)
IM3003 INFORMATION SECURITY	
<ol style="list-style-type: none"> 1. Stallings William, <u>Cryptography and Network Security: Principles and Practice</u>, 4th Edition, Pearson/Prentice-Hall, 2006. (TK5105.59.S782C 2006) 	<ol style="list-style-type: none"> 1. Bishop Matt, <u>Introduction to Computer Security</u>, Addison-Wesley, 2004. (QA76.9.A25B622T) 2. Pieprzyk Josef, Hardjono Thomas and Seberry Jennifer, <u>Fundamentals of Computer Security</u>, Springer, 2003. (QA76.9.A25P614)
IM4001 MULTIMEDIA SYSTEMS	
<ol style="list-style-type: none"> 1. Li Ze-Nian and Drew Mark S, <u>Fundamentals of Multimedia</u>, Pearson Prentice-Hall, 2004. (QA76.575.L693) 	<ol style="list-style-type: none"> 1. Steinmetz Ralf and Nahrstedt Klara, <u>Multimedia: Computing, Communications and Applications</u>, Prentice-Hall, 1997. (QA76.575.S823 1997)
IM4040 ENGINEER AND SOCIETY	
	<ol style="list-style-type: none"> 1. Singapore: <u>Journey Into Nationhood</u>, National Heritage Board: Landmark Books, 1998.

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	<p>(DS610.4.S617j)</p> <p>2. Johnston Stephen F, Gostelow J Paul and King W Joseph, Engineering and Society: Challenges of Professional Practice, Prentice-Hall, 2000. (TA157.J73)</p> <p>3. Lee Kuan Yew, From Third World to First. The Singapore Story: 1965:2000, Memoirs of Lee Kuan Yew, Times Editions, 2000. (DS598.S7L478f)</p>
IM4041 HUMAN RESOURCE MANAGEMENT	
<p>1. Robbins Stephen P and Judge Timothy Organizational Behavior, 14th Edition, Pearson, 2010.</p> <p>2. Chan & Tan, Leading & Managing Organizational Behavior, Pearson, 2005</p>	<p>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)</p> <p>2. Collins, James C & Porras, Jerry I, Built to Last: Successful Habits of Visionary Companies, Harper Business, 2002. (HF5386.C712 2002)</p> <p>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)</p> <p>4. Mayo Andrew, The Human Value of the Enterprise: Valuing People as Assets - Monitoring, Measuring, Managing, Nicholas Brealey Publishing, 2001. (HD53.M473)</p> <p>5. George Stephen, The Baldrige Quality System: The Do-it-yourself Way to Transform your Business, John Wiley, 1992. (HD62.15.G349b)</p> <p>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)</p> <p>7. Senge Peter M, The Fifth Discipline: The Art and Practice of the Learning Organization, Currency Doubleday, 2006. (HD58.9.S476 2006)</p> <p>8. Chew Soon Beng, Trade Unionism in Singapore, McGraw-Hill, 1991. (HD6820.67.C529)</p>
IM4152 DIGITAL COMMUNICATIONS	
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IM4153 TELECOMMUNICATION SYSTEMS	
<p>1. Flood John Edward, <u>Telecommunications Switching, Traffic and Networks</u>, Prentice-</p>	<p>1. Keiser Gerd, Optical Fibre Communications, 3rd Edition, McGraw Hill, 2000.</p>

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IM4188 WIRELESS COMMUNICATIONS	
<p>1. Rappaport Theodore S, <u>Wireless Communications: Principles and Practice</u>, 2nd Edition, Prentice-Hall, 2002. (TK5103.2.R221 2002)</p> <p>2. Agrawal Dharma Prakash and Zeng Qing-An, <u>Introduction to Wireless and Mobile Systems</u>, 2nd Edition, Thomson Nelson, 2006. (TK5103.2.A277 2006)</p>	<p>1. Freeman Roger L, <u>Radio System Design for Telecommunications</u>, 3rd Edition, IEEE/Wiley-Interscience, 2007. (TK6553.F855 2007)</p> <p>2. Garg Vijay Kumar, <u>Wireless communications and networking</u>, Elsevier Morgan Kaufmann, 2007, (TK5103.2.G231WC)</p> <p>3. Goldsmith Andrea, <u>Wireless Communications</u>, Cambridge University Press, 2005, (TK5103.2.G624)</p>
IM4455 EMBEDDED SYSTEMS	
<p>1. Wolf Wayne, <u>High-Performance Embedded Computing: Architectures, Applications, and Methodologies</u>, 1st Edition, Elsevier/Morgan Kaufmann, 2007 (TK7895.E42W855)</p> <p>2. Gan Woon-Seng and KuoSenM, <u>Embedded Signal Processing with the Micro Signal Architecture</u>, Wiley-Interscience, 2007. (TK5102.9.G195)</p>	<p>1. Katz David J and Gentile Rick, <u>Embedded Media Processing</u>, Elsevier/Newnes, 2006. (TK5102.9.K19)</p> <p>2. NoergaardTammy, <u>Embedded Systems Architecture: A Comprehensive Guide for Engineers and Programmers</u>, Elsevier/Newnes, 2005. (TK7895.E42N769)</p> <p>3. Wolf Wayne Hendrix, <u>Computers as Components: Principles of Embedded Computing System Design</u>, 2nd Edition, Morgan Kaufmann, 2008. (QA76.9.S88W855 2008)</p> <p>4. KuoSen M and Gan Woon-Seng, <u>Digital Signal Processors: Architectures, Implementations and Applications</u>, Pearson Prentice Hall, 2005 (TK5102.9.K96)</p>
IM4475 AUDIO SIGNAL PROCESSING	
<p>1. Bosi Marina and Goldberg Richard E, <u>Introduction to Digital Audio Coding and Standards</u>, Kluwer Academic, 2003. (TK7881.4.B743)</p> <p>2. KuoSen M and Gan Woon-Seng, <u>Digital Signal Processors: Architectures, Implementations and Applications</u>, Pearson Prentice-Hall, 2005. (TK5102.9.K96)</p> <p>3. Gardner William G, <u>3-D Audio Using Loudspeakers</u>, Kluwer Academic, 1998. (TK7881.83.G228)</p>	<p>1. Pohlmann Ken C, <u>Principles of Digital Audio</u>, 5th Edition, McGraw-Hill, 2005. (TK7881.4.P748 2005)</p> <p>2. Watkinson John, <u>The Art of Digital Audio</u>, 3rd Edition, Focal Press, 2001. (TK7881.4.W336 2001)</p>
IM4476 IMAGE PROCESSING	
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IM4478 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, H.264 and MPEG-4 Video Compression: Video Coding for next Generation Multimedia, Wiley, 2003. (TK6680.5.R522) 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))
IM4483 ARTIFICIAL INTELLIGENCE & 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)
IM4756 COMPUTER ARCHITECTURE	
1. Hennessy John L and Patterson David A, Computer Architecture: A Quantitative Approach, 3rd Edition, Morgan Kaufmann, 2003. (QA76.9.A73H515).	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 Organization and Design: The

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IM4761COMPUTER NETWORKING	
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HW0210 TECHNICAL COMMUNICATION	
<p>1. Krishnan, L. A., et al. (2006). <i>Engineering Your Report from Start to Finish (2nd ed.)</i>. Singapore: Pearson.</p>	<p>1. Finkelstein, Jr. L. (2005). <i>Pocket Book of Technical Writing for Engineers and Scientists (2nd ed.)</i>. Singapore: McGraw-Hill</p> <p>2. Pfeiffer, W. S. and Adkins, K. E. (2010). <i>Technical Communication: A Practical Approach (7th ed.)</i>. NJ: Pearson.</p> <p>3. Sorby, S. A. and Bulleit, W. M. (2006). <i>An Engineer's Guide to Technical Communication</i>. NJ: Pearson.</p>
HW0310 PROFESSIONAL COMMUNICATION	
<p>HW310: Professional Communication. (2010) Published by McGraw Hill</p>	<p>1. Adler, R.B. and Elmhorst J.M. (2010). <i>Communicating at Work (10th Edition)</i>. McGraw-Hill NY.</p> <p>2. Locker, K.O. and Kaczmarek, S.K. (2009).</p>

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DA1000 THINKING AND COMMUNICATING VISUALLY I	
	<p>1. Jack Foster, How to Get Ideas, Berrett-Koehler</p> <p>2. Rudolph Arnheim, Art and Visual Perception: A Psychology of the Creative Eye, University of California Press</p> <p>3. Rudolph Arnheim, Visual Thinking, University of California Press</p> <p>4. Alan Pipes, Drawing for Designers, Laurence King</p>
DA2002 THINKING AND COMMUNICATING VISUALLY II	
	<p>1. C Wallschlaeger, C Busic-Snyder, Basic Visual Concepts and Principles: For Artists, Architects and Designers, Wm. C. Brown</p> <p>2. S Bleicher, Contemporary Color: Theory and Us, Thomson/Delmar Learning</p> <p>3. Johannes Itten, The Art of Color, Jon Wiley & Sons</p> <p>4. Wucius Wong, Principles of Form and Design, John Wiley & Sons</p> <p>5. Alan Pipe, Foundations of Art and Design, Laurence King</p> <p>6. John Gage, Colour and Meaning: Art, Science and Symbolism, Thames and Hudson</p>
DA3000 THINKING AND COMMUNICATING VISUALLY III	
	<p>1. Lewalski, Zdzislaw Marian, Product Esthetics An Interpretation for Designers, Design & Development Engineering Press</p> <p>2. Johannes Itten, The Art of Color, Jon Wiley & Sons</p> <p>3. Wucius Wong, Principles of Form and</p>

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COM204 BASIC MEDIA WRITING	
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COM206 VISUAL LITERACY AND COMMUNICATION	
Lester, Paul (2011). <i>Visual Communication: Images with Messages</i> . USA: Wadsworth, Cengage Learning	<p>1. A History of Visual Communications http://www.citrinitas.com/history_of_viscom/</p> <p>2. A Filmmaker toolkit (http://www.filmmakers-toolkit.group.shef.ac.uk/) Colour Basics: http://www.colorbasics.com/</p> <p>3. DSLR Tips http://www.dsrltips.com/</p> <p>4. Film School Direct (offers useful tips for making films clips): http://www.filmschooldirect.com/</p> <p>5. Filmsites http://www.filmsite.org/</p> <p>6. KnowledgeHound (Filmmaking): http://www.knowledgehound.com/topics/film.htm</p> <p>7. Storyboards and Photography (Slideshare) http://www.slideshare.net/vadikunc/storyboard-and-photography</p> <p>8. Video College (tutorials on video cameras and video editing): http://www.mediacollege.com/video/</p>
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