

必修課程教科書清單(含書名、作者、出版社及出版年)

95 學年度 上學期

課程代碼	課程名稱	授課老師	教科書
M5621	專題研討	王鵬華	N/A
M6564	撰寫論文		N/A.
M5625	編碼理論	韓永祥	Probability and Random Processes for Electrical Engineering by Alberto Leon-Garcia, Addison-Wesley, 1994.
M5627	隨機過程	王鵬華	Probability and Random Processes for Electrical Engineering by Alberto Leon-Garcia, Addison-Wesley, 1994. Probability, Random Variables, and Random Signal Principles by Peyton Peebles Jr., McGraw-Hill Science/Engineering/Math, 2000. Probability, Random Variables and Stochastic Processes by Papoulis, Athanasios & Pillai, S. Unnikrishna, McGraw-Hill Science/Engineering/Math, 2001
M5630	數位通訊 I	白宏達	Sklar, Digital Communications: Fundamentals and Applications, Prentice Hall, 2001, 2nd ed.
M5631	數位訊號處理	王鵬華	1. Alan V. Oppenheim, Ronald W. Schaffer, and John R. Buck, Discrete-Time Signal Processing, 2nd Ed., Prentice-Hall, 1999, ISBN: 0137549202. 2. Vinay K. Ingle and John G. Proakis, Digital Signal Processing Using MATLAB, 2nd Ed., Thomson, 2006, ISBN: 0495244414.
M5844	消息理論	韓永祥	1. Elements of Information Theory, Thomas M. Cover and Joy A. Thomas, John Wiley & Sons, Inc., 2006. 2. Principles and Practices of Information Theory, Richard E. Blahut, Addison Wesley, 1988.
M5845	數據通訊	詹景裕	Wireless Communications: Principles and Practice by Theodore S. Rappaport, Prentice Hall, 2002. Quadrature Amplitude Modulation: From Basics to Adaptive Trellis-Coded, Turbo-Equalised and Space-Time Coded OFDM, CDMA and MC-CDMA Systems by Lajos Hanzo, Soon Xin Ng, Thomas Keller, and William Webb, Wiley-IEEE Press, 2004. OFDM and MC-CDMA for Broadband Multi-User Communications, WLANs and Broadcasting by Lajos Hanzo, M. Moustafa, B. J. Choi, and Thomas Keller, Wiley-IEEE Press, 2003.
M6612	無線隨意及感測網路進階技術	陳裕賢	N/A

M6613	個人通訊	陳裕賢	1. Wireless and Mobile Network Architecture Yi-Bing Lin and Imrich Chlamtac
M6615	計算機圖學導論	黃俊堯	Edward Angel, “Interactive Computer Graphics: A Top-Down Approach Using OpenGL, 4/E”, 開發圖書公司代理
M6616	資訊安全導論	張仁俊	1.自編講義、補充教材 2.經濟部工業局無線通訊工業人才培訓計畫之 A7 網路安全講義，張仁俊，交通大學電機資訊學院電信研究中心，2004. 3.Cryptography: Theory and Practice, Douglas R. Stinson, CRC Press, 2002. 4.Cryptography and Network Security : Principle and Practice, 3/e, William Stallings, Prentice Hall, 2002. 5FOUNDATIONS OF CRYPTOGRAPHY: BASIC TOOLS, O. Goldreich, Cambridge University Press , 2001.
M6617	數位影像處理	林道通	The principal objectives of this course is to provide an introduction to basic concepts and methodologies for digital image processing, and to develop a foundation that can be used as the basis for further study and research in this field.

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M5621	專題研討	王鵬華	N/A
M6564	撰寫論文		N/A
M5137	無線通訊 專論	陳裕賢	N/A
M5224	數位訊號 處理專論	謝君偉	Computer Vision by Linda G. Shapiro and G. Stockman
M5849	網路資訊 安全	張仁俊	<ol style="list-style-type: none"> 1. 經濟部工業局無線通訊工業人才培訓計畫之 A7 網路安全講義，張仁俊，交通大學電機資訊學院電信研究中心，2004. 2. 密碼學—加密演算法，鄧安文，全華，2004. 3. 駭客集中營，數位人。 4. Cryptography: Theory and Practice, Douglas R. Stinson, CRC Press, 2002. 5. Cryptography and Network Security : Principle and Practice, 3rd ed., William Stallings, Prentice Hall, 2002. 6. Foundations of Cryptography: Basic Tools, O. Goldreich, Cambridge University Press, 2001. 7. Handbook of Applied Cryptography, A. J. Menezes, etc., CRC Press, 1997. 8. Analysis and Design of Stream Ciphers, R. A. Rueppel, Springer-Verlag, 1986.
M5850	影像處理 導論	呂嘉毅	Introduction to digital image processing with Matlab, by Alasdair McAndrew
M5851	偵測與評 估	王鵬華	H. L. Van Trees, Detection, Estimation, and Modulation Theory, Part I, John Wiley & Sons, Inc., 2001.
M5852	排隊理論	韓永祥	An Introduction to Queueing Systems, by S. K. Bose, 2000.
M5853	類神經網 路	林道通	自編講義 Reference: Neural Networks, Simon Haykin, 2nd ed., Prentice-Hall, 1999
M5854	數位通訊 II	白宏達	Course Notes
M5855	編碼理論	韓永祥	Textbook: Error Control Coding, Second Edition, S. Lin and D. J. Costello, Jr., Prentice-Hall, Inc., 2004. Reference: Channel Coding for Telecommunications, Martin Bossert, John Wiley & Sons, 1999.

M5856	資訊隱藏 概論	楊致芳	<ol style="list-style-type: none"> 1. Handouts 2. Digital Watermarking, I. J. Cox, M. L. Miller, and J. A. Bloom, second Ed., Morgan Kaufmann, 2008. 3. Digital Image Processing, R. C. Gonzalez and R. E. Woods, Prentice Hall, 2002.
M5857	網際網路 技術	張玉山	Textbook: Lecture notes
M5858	資料壓縮	白宏達	Sayood, Introduction to Data Compression, Morgan Kaufmann, 3rd Ed., 2005

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M5621	專題研討	王鵬華	N/A
M6564	撰寫論文		N/A
M5015	高等編碼理論	韓永祥	1. Channel Coding for Telecommunications, Martin Bossert, John Wiley & Sons, 1999. 2. Turbo Codes — Principles and Applications, B. Vucetic and J. Yuan, Kluwer Academic Publishers, 2000. 3. Error-Control Coding for Data Networks, I. S. Reed and X. Chen, Kluwer Academic Publishers, 1999.
M5016	電腦視覺	謝君偉	Computer Vision by Linda G. Shapiro and G. Stockman Pattern Classification by R.O Duda, P. E. Hart, and D.G. Stork
M5018	模糊理論與應用	黃有評	R.R. Yager and D.P. Filev, Essentials of Fuzzy Modeling and Control, John Wiley & Sons, Inc.
M5019	普及式計算	黃俊堯	David Benyon, Phil, Turner and Susan Turner, “Designing Interactive System : People, Activities, Contexts, Technologies” , 全華圖書科技公司代理
M5122	演算法	莊東穎	1. Introduction to the Design and Analysis of Algorithms R.C.T. Lee, S.S. Tseng, R. C. Chang and Y.T. Tsai (Mc Graw Hill) 2. Introduction to Algorithms by T. H. Cormen, C. E. Leiserson and R. L. Rivest 3. 教師自編講義、投影片。
M5627	隨機過程	王鵬華	Probability and Random Processes for Electrical Engineering by Alberto Leon-Garcia, Addison-Wesley, 1994.
M5630	數位通訊 I	白宏達	Sklar, Digital Communications: Fundamentals and Applications, Prentice Hall, 2001, 2nd ed.
M5631	數位訊號處理	王鵬華	1. Alan V. Oppenheim, Ronald W. Schaffer, and John R. Buck, Discrete-Time Signal Processing, 2nd Ed., Prentice-Hall, 1999, ISBN: 0137549202. 2. Vinay K. Ingle and John G. Proakis, Digital Signal Processing Using MATLAB, 2nd Ed., Thomson, 2006, ISBN: 0495244414.
M5844	消息理論	韓永祥	1. Elements of Information Theory, Thomas M. Cover and Joy A. Thomas, John Wiley & Sons, Inc., 2006. 2. Principles and Practices of Information Theory, Richard E. Blahut, Addison Wesley, 1988.
M5845	行動計算	張玉山	Papers and Lecture notes

M6612	無線隨意 及感測網 路進階技 術	陳裕賢	N/A
M6613	無線網路 導論	陳裕賢	Mobile Communication (Second Edition) JoCHEN SCHILLER (全華科技圖書代理)
M6617	車載資通 訊安全技 術	張仁俊	1.自編講義 2.期刊論文 (journal papers)

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M5621	專題研討	王鵬華	N/A
M6564	撰寫論文		N/A
M5040	圖形識別	楊致芳	1. Handouts 2. Reference : Pattern Recognition and Machine Learning, Christopher M. Bishop, New York, Springer, 2006.
M5045	編碼理論	韓永祥	Textbook: Error Control Coding, Second Edition, S. Lin and D. J. Costello, Jr., Prentice-Hall, Inc., 2004. Reference: Channel Coding for Telecommunications, Martin Bossert, John Wiley & Sons, 1999.
M5064	機器學習	謝君偉	1. Pattern Recognition and Machine Learning, C. M. Bishop, Springer, 2006. 2. Introduction to Machine Learning, E. Alpaydin, MIT Press, 2004
M5137	無線通訊 專論	陳裕賢	N/A
M5849	資訊安全 導論	張仁俊	1.自編講義、補充教材 2.經濟部工業局無線通訊工業人才培訓計畫之 A7 網路安全講義，張仁俊，交通大學電機資訊學院電信研究中心，2004。 3.Cryptography: Theory and Practice, Douglas R. Stinson, CRC Press, 2002. 4.Cryptography and Network Security : Principle and Practice, 3/e, William Stallings, Prentice Hall, 2002. 5.Foundations of Cryptography: Basic Tools, O. Goldreich, Cambridge University Press, 2001.
M5850	影像處理 導論	呂嘉毅	Introduction to digital image processing with Matlab, by Alasdair McAndrew
M5851	偵測與評估	王鵬華	H. L. Van Trees, Detection, Estimation, and Modulation Theory, Part I, John Wiley & Sons, Inc., 2001.
M5853	類神經網路	林道通	自編講義 Reference: Neural Networks, Simon Haykin, 2nd ed., Prentice-Hall, 1999
M5854	數位通訊 II	白宏達	Course Notes
M5858	資料壓縮	白宏達	Sayood, Introduction to Data Compression, Morgan Kaufmann, 3rd Ed., 2005

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M5621	專題研討	魏存毅	N/A
M6564	論文		N/A
M5122	演算法	張仁俊	1. Introduction to Algorithms, 2/e, by Cormen, Leiserson, Rivest and Stein, McGraw-Hill (The MIT Press), 2005, ISBN 0-262-53196-8. (Textbook) 2. 自編講義、補充教材 3. Algorithm Design, by Kleinberg and Tardos, Addison Wesley, 2006, ISBN 0-321-37291-3.
M5168	數位訊號處理	王鵬華	1. Alan V. Oppenheim, Ronald W. Schaffer, and John R. Buck, Discrete-Time Signal Processing, 2nd Ed., Prentice-Hall, 1999, ISBN: 0137549202. 2. Vinay K. Ingle and John G. Proakis, Digital Signal Processing Using MATLAB, 2nd Ed., Thomson, 2006, ISBN: 0495244414.
M5627	隨機程序	魏存毅	- Probability and Random Processes for Electrical Engineering by Alberto Leon-Garcia, Addison-Wesley, 1994. - Probability, Random Variables, and Random Signal Principles by Peyton Peebles Jr., McGraw-Hill Science/Engineering/Math, 2000. - Probability, Random Variables and Stochastic Processes by Papoulis, Athanasios & Pillai, S. Unnikrishna, McGraw-Hill Science/Engineering/Math, 2001
M5630	數位通訊	白宏達	Sklar, Digital Communications: Fundamentals and Applications, Prentice Hall, 2001, 2nd ed.
M5844	消息理論	王鵬華	Thomas M. Cover and Joy A. Thomas, Elements of Information Theory, 2nd Ed., John Wiley & sons. Inc., 2006, ISBN: 0471241954.
M5845	無線通訊	魏存毅	- Wireless Communications: Principles and Practice by Theodore S. Rappaport, Prentice Hall, 2002. - Quadrature Amplitude Modulation: From Basics to Adaptive Trellis-Coded, Turbo Equalised and Space-Time Coded OFDM, CDMA and MC-CDMA Systems by Lajos Hanzo, Soon Xin Ng, Thomas Keller, and William Webb, Wiley-IEEE Press, 2004. - OFDM and MC-CDMA for Broadband Multi-User Communications, WLANs and Broadcasting by Lajos Hanzo, M. Münster, B. J. Choi, and Thomas Keller, Wiley-IEEE Press, 2003.

課程代碼	課程名稱	授課老師	教科書
M5621	專題研討	魏存毅	N/A
M5107	無線和行動網路	陳裕賢	N/A
M5122	編碼理論	白宏達	Lin and Costello, Error Control Coding, Prentice Hall, 2nd Ed., 2004 Bossert, Channel Coding for Telecommunications, John Wiley & Sons, 1999
M5123	最佳化理論	白宏達	Baldick, Applied Optimization: Formulation and Algorithms for Engineering Systems, Cambridge University Press 2006
M5124	無線通訊	魏存毅	-Wireless Communications: Principles and Practice by Theodore S. Rappaport, Prentice Hall, 2002. -Quadrature Amplitude Modulation: From Basics to Adaptive Trellis-Coded, Turbo-Equalised and Space-Time Coded OFDM, CDMA and MC-CDMA Systems by Lajos Hanzo, Soon Xin Ng, Thomas Keller, and William Webb, Wiley-IEEE Press, 2004. -OFDM and MC-CDMA for Broadband Multi-User Communications, WLANs and Broadcasting by Lajos Hanzo, M. Münster, B. J. Choi, and Thomas Keller, Wiley-IEEE Press, 2003.
M5173	通訊數學	王鵬華	(1) Fraleigh, A First Course in Abstract Algebra, Addison Wesley, 7th Ed., 2003 (2) Golub and Van Loan, Matrix Computations Johns Hopkins University Press, 3rd Ed. (3) Thomas M. Cover and Joy A. Thomas, Elements of Information Theory, 2nd Ed., John Wiley & Sons. Inc., 2006. (4) James A. Bucklew, Large Deviation Techniques in Decision, Simulation, and Estimation, John Wiley & Sons. Inc., 1990.
M5851	偵測與評估	王鵬華	H. L. Van Trees, Detection, Estimation, and Modulation Theory, Part I, John Wiley & Sons, Inc., 2001.