電信所得士生責格考核--考試科目多考書籍&範圍 GICE Doctoral Qualifying Exam - Reference Books and Range of Topics

・単成件 II ・ 考生原泉高度現文患者・毎月考試時間的会種・以高採集対方式・ The written exams are separated into three categories: students will have 100 minutes to complete each subject within the test category. The test will be sealed.

組別 Group		考試科目 Exam Subjects		参考書籍 Reference Books	参考範圍 Range of Topics	参考網址 Reference Websites
**************************************		微分方程 Differential Equations	100%	L. "Advanced Engineering Mathematics," 3rd ed., by Peter V. O'Neil, LTP. (4th ed. is a wailable tow) "Differential Engineerine Wilson with Boundary-Value Problems," 4th ed., by Dennis G. 201 and Michael R. Cullen.	- First order differential equations - Differential equations of higher order - Luplace transform - Series solutions of loner differential equations - Systems of the differential equati	
		(=) (Electromagnetics I & II	100%	t. "Field and Wore Electromagnetics," by David K. Cheng, 2nd ed., Addison- tionley, 1990. The Commission of Engineering Electromagnetics," by N. N. Ruo, 5th ed., Prentse-Hall, 2000.	Vector analysis State cheeric fields Shating ord (externa fields) Shating ord (externa fields) Shating ord (externa currents) Shating report (externa currents) Shating report (externa currents) Shating report (externa field) Shating report (externa field) Final report (extern	
	三科理考一科 Choose one subject out of three	最高電路 Theory of Microwave Circuits and Devices	100%	1. Microwave Bigineering*, David M. Pour, Znd. ed., John-Wiely, 1998. Chapter 2. 13, 13, 5, 4, 5, 16, 27 Chapter 2. 13, 13, 5, 4, 5, 16, 27 Chapter 4. 13, 12, 5, 4, 4, 5, 4, 6, for first of intenest Chapter 6. 13, 6, 23, 45, 45, 46, for first of intenest Chapter 6. 13, 6, 2, 5, 5, 7 Chapter 7. 13, 12, 13, 15, 7, 6, 7, 7, 7, 7, 9 Chapter 10, 11, 12, 13, 15, 7, 6, 7, 7, 7, 7, 7 Chapter 10, 11, 11, 11, 11, 11 Chapter 11, 11, 11, 11 Chapter 12, 12, 12, 13, 14 Chapter 12, 12, 12, 14 Chapter 12, 12, 12, 14	- Transmission line theory - Transmission lines and microwave network analysis - Impediance and luming - Impediance and luming - Impediance of control of the control of th	
		天像 Antonna	100%	1. "Antenna Theory and Design." by Robert S. Elliott.	Fire field integrals, recipiosity, directivity Radiation patterns of depoles, loops, and felicies Radiation patterns of depoles, loops, and patch internass Lincor arrays; embrys Lincor arrays; embrys Sec.5.1 to Sec.5.7 only) Self impedance and mutual impedance of antenna dements (Sec.7.1 to Sec.7.7 only)	
		Totalsh Rictromagnetics Theory	100%	I. "Time-Harmonic Electromagnetic Fields," by R. F. Harrington, Ch.I to Ch.6.	Findamental concepts (Marwell equations, energy and power, Foundary conditions—) Findocations to wares (Wares in loosy matter, reflection of wares, memmins lines, wareguides, exentains, attention—) Findocations lines, wareguides, exentains, attention—in the control of the co	
Sint CSP		級性代款 Linear Algebra	50%	Linear Algebra: A Matrix Approach 2e by Spence, Insel, Friedberg	systems of linear equations, Gaussian delimitation, reduced two excludes form, qual, linear depreciation/independence, invertibility and elementary markets, quality and elementary markets, and the contractive markets, market representation of linear equenture, eigenvalues, eigenvalues and langualization, endopensity. Grane Schamit process, endopensal process, least-square, and contractive elementary contractive markets, least-square paces and software for the markets of linear experience and of linear operations, inter product spaces.	
		概率與數據程序 Probability and Random Process	50%	LA. Pspoulis and S.U. Pillat. Probability. Random Variables, and Stochastic Processos. South edition. McGens-Bill. 2002. 2. H. Lances and B. Shibert. Probabilistic Models in Engineering Sciences, vols. 1 and 2. Wiley, 1979.	1. Review of Basedom Visiables (Pageodis, Clares, 1-7, and class note) 2. Introduction to the after three or General Concepts and Spectral Analysis Propositio, Clary and class note) 3. Real-Valued Genesian Random Vectors and Real-Valued Genesian Random Processed Larone & Sabart, class note) 4. Karlamer-Laron Reprocession of Pageodis, Chap. 11, and class note)	have illumerate stateds to 1-0.0942121/sea 105 htm.
	三科理考一科 Choose one subject out of three	散位理信 Digital Communications 地路通信和 Computer Communication Networks	100%			
		數位網號連 Digital Signal Processing	100%	A. V. Oppenheim and R. W. Schufer, Discrete-Time Signal Processing, Pearson	Cap 2 Discrete-Time Signals and Systems Cap 2 These-Transform Cap 4 Sampling of Continuous-Time Signals Cap 7 Filter Design Techniques Cap 7 Filter Design Techniques Cap 8 The Dasser Foreir Transform Cap 9 Comprisation of the Discrete Fourier Transform	
₩ DS	二科理考二科 Choose two subjects out of three	総性作業 Linear Algebra	50%	Linear Algebra: A Matrix Approach 2c by Spence, Insel, Friedberg	systems of linear equations, Gaussian climination, reduced row echelon form, opin, linear dependence/independence, invertibility and elementary matrices, unerce, linear transformations, destrumants, subspaces, basis, coordinate, matrix representation of latera operator, eigenvisch, eigenvischen and dissignatifization, erthoposality, (rams-felhandi process, erthoposal projection, conservations), better destrumants, services attention, services are serviced subspaces, linear transformations, basis, matrix representation of linear operations, inner product spaces.	
		機率與統計 Probability and Statistics	50%	Notes and D. Goodman, "Probability and Stochastic Processes," 2e, Wiley, 2005. Destrokes and J. Taistiklis, "Introduction to Probability," 2e, Aftena Scientific, 2008. S. Ghafmannai, "Fundamentals of Probability with Stochastic Processes," 3e, Prentice Hall, 2005.	Experiences Models, and Probabilistics	
		Discrete Mathematics	50%	Discrete Mathematics and Its Applications 7th Edition	I. Mathemitical Reasoning Logic, Proof methods, Inductive Proofs 2. Combinations, Courtes, Boolan Aglera Combinations, Courtes, Boolan Aglera Combinations, Courtes, Boolan Aglera Combinations, Courtes, Boolan Aglera Courtes, Permutations, Relations, Gught, Tiese, Finiti-esta Machino Cought,	
	三科理考一科 Choose one subject out of three	Machine Learning	100%	I. Introduction to Machine Learning, second edition. Bithern Alpoydia Phenen Recognition and Machine Learning. Christopher M. Behop I. Learning from Data, Vacer S. Also-Montali, Malik Magabo-leaned, Husun-Tica	I. Dep Nearal Network 2. Cornolisticani Nearal Network 3. Cornolisticani Nearal Network 4. Unsupervised Learning Linear Models 4. Unsupervised Learning Constainer Model 5. Unsupervised Learning Constainer Model 7. Transfel Cannating 8. Reyword Classifications: Recurrent Nearal Network 9. Reyword Classifications: Recurrent Nearal Network 9. Reyword Classifications: Recurrent Nearal Network 9. Reyword Classifications: Recurrent Nearal Network 10. Learning in the Bod Work Reinforcement Learning	
		資料料學 Data Science	100%	Data Mining: Concepts and Techniques, J. Han and M. Kamber, Morgan Kaufmann , 2000	L. Mining Association Rules 2. PPT per 2. Per per per 2. Per 2. Per Per 2	
		Computer Communication Networks	100%	Andrew S.Tatenbaum "Computer Networks" Third Edition 1996 Prentice-Hall International Inc.	L.The Physical Layer 2. The Dota Lisk Layer 3. The Molium Acces 4. Advewed Layer 5. The Timmegen Layer 6. The Apposation Layer	