

**Recommended Text/Reference Book**  
**2001/2002 Session**

**THIRD YEAR – SCHEDULE 5**

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**CG3212 CONTROL ENGINEERING**

by Dr WW Tan & A/P WK Ho

1. Modern Control Engineering  
- K Ogata  
- 3<sup>rd</sup> Edition, Prentice Hall, 1997
2. Feedback Control of Dynamic Systems  
- GF Franklin, JD Powell & A Emami-Naeini  
- 3<sup>rd</sup> Edition, Addison Wesley

**EE3101 DSP FUNDAMENTALS**

by Prof YC Lim & Dr Lian Yong

1. Digital Signal Processing : Principles, Algorithms, and Applications  
- John G. Proakis and Dimitris G. Manolakis  
- Prentice Hall, 3rd Ed. 1996
- \*2. *Digital Signal Processing*  
- Thomas J. Cavicchi  
- John Wiley & Sons Inc.
- \*3. *Digital Signal Processing Using Matlab*  
- Vinay K. Ingle & John G. Proakis  
- Brooks/Cole, Thomson Learning
- \*4. *Digital Signal Processing : A computer-Based Approach*  
- S.K. Mitra  
- McGraw-Hill International Editions
- \*5. *Analog and Digital Signal Processing, 2ED*  
- Ashok Ambaradar  
- Thomson Publishing Company(Brook/Cole Publishing Company)
- \*6. *Digital Signal Processing*  
- Steve White  
- Thomson Learning
- \*7. *Mathematical Methods and Algorithms for Signal Processing*  
- Todd K. Moon & Wynn c. Stirling  
- Prentice Hall
- \*8. *Digital Signal Processing*  
- S Salivahanan, A Vallavaraj and C Gnanapriya  
- McGraw Hill, 2000

- \*9. *An Introduction to Digital Signal Processing with Mathcad*  
- R O Harger  
- PWS Publishing Compan, 1999
- \*10. *Digital Signal Processing*  
- M H Hayes  
- SCHAUM's outlines. McGraw Hill, 1999

### **EE3103 COMMUNICATIONS**

by Prof Lawrence Wong & Dr LC De Silva

- \*1. *Telecommunications Switching, Traffic and Networks*  
- JE Flood  
- Prentice-Hill.
- \*2. *Packet Switching - Tomorrow's Communications Today*  
- RD Rosner  
- Lifetime Learning.
- \*3. *Wireless Telecommunications – Principles & Practice*  
- TS Rappaport  
- IEEE Press/Prentice Hall
- \*4. *Telecommunication System Engineering, 3<sup>d</sup> Edition*  
- RL Freeman  
- Wiley
- \*5. *Modern Communion Systems – Principles & Applications, 1<sup>st</sup> published in 1995*  
- Leon W Couch II  
- Prentice Hall
- \*6. *Digital Communications, 1<sup>st</sup> published in 1998*  
- Ian A. Glover & Peter M. Grant  
- Prentice Hall.
- \*7. *Analog & Digital Communication Systems*  
- Martin S. Roden  
- 4<sup>th</sup> Edition, Prentice Hall, 1996.

### **EE3202 COMPUTER SYSTEMS**

by A/P TT Tay & Dr LF Cheong

- 1. *The Intel Microprocessors 8080/8088, 80186/80188, 80286, 80386, 80486, Pentium, and Pentium Pro Processor, Architecture, Programming, and Interfacing,*  
- Barry B Brey  
- 4<sup>th</sup> Edition, Prentice Hall, 1997.

### **EE3204 COMPUTER COMMUNICATION NETWORKS I**

by Dr Mohan Gurusamy

- 1. *Computer Networks: A Systems Approach*  
Peterson & Davie  
- 2<sup>nd</sup> Edition, Morgan Kaufmann, 2000.
- 2. *Data & Computer Communications*  
- William Stallings

- 6<sup>th</sup> edition, Prentice Hall, 2000.

3. Computer Networks
  - A. S. Tanenbaum
  - 3<sup>rd</sup> Edition, Prentice Hall, 1996

### **EE3205 REAL-TIME EMBEDDED SYSTEMS**

by A/P Kenneth Ong & Dr CK Tham

1. Logical Design of Operating Systems
  - L Bic and AC Shaw
  - 2<sup>nd</sup> Edition, Prentice-Hall, 1988.
- \*2. *A Practical Guide to Real-Time Systems Development*
  - S Goldsmith
  - Prentice-Hall, 1993.

### **EE3206 INTRODUCTION TO COMPUTER VISION & IMAGE PROCESSING**

by A/P SH Ong

1. Digital Image Processing
  - RC Gonzalez and RE Woods
  - Addison Wesley, 1992
- \*2. *Fundamentals of Electronic Image Processing*
  - AR Weeks, Jr.
  - SPIE, 1996
- \*3. *Digital Image Processing*
  - WK Pratt
  - 2<sup>nd</sup> Edition, Wiley, 1991
- \*4. *Digital Image Processing*
  - KR Castleman
  - Prentice Hall 1996
- \*5. *The Image Processing Handbook*
  - JC Russ
  - 3<sup>rd</sup> Edition, CRC Press, 1999

### **EE3302 INDUSTRIAL CONTROL SYSTEMS**

by A/P Sam Ge & Dr KK Tan

1. Process Control Instrumentation Technology
  - CD Johnson
  - 4<sup>th</sup> Edition, Regents/Prentice-Hall, 1993.
2. Process Control in Practice
  - T Hagglund
  - Studentlitteratur, 1991.
3. Serial Networked Field Instrumentation
  - JR Jordan
  - John Wiley & Sons, 1995.
4. Programming Industrial Control Systems Using IEC 1131-3

- RW Lewis
- IEE, 1995.

- \*5. *PC Interfacing for Laboratory Data Acquisition and Process Control*  
- S Gupta and JP Gupta  
- ISA, 1989.

### **EE3304 DIGITAL CONTROL SYSTEMS**

by A/P Loh & A/P AP JX Xu

1. Digital Control of Dynamic Systems  
- Franklin GF, Powell JD and Workman ML  
- 3<sup>rd</sup> Edition, Addison Wesley.
2. Computer controlled systems: Theory and design  
- Astrom, K.J. and Wittenmark, B.  
- 3<sup>rd</sup> Edition, Prentice-Hall
3. Applied Digital Control  
- Leigh J.R  
- Prentice Hall, 1992