

Recommended Text/Reference Book
2001/2002 Session

FOURTH YEAR - SCHEDULE 7

IE 4290 INTRODUCTION TO OPERATIONS RESEARCH (replace EE4003)

Please refer to IVLE website

EE4102 DIGITAL COMMUNICATIONS

by Dr A Nallanathan

1. Digital Communications
- S Haykin
- Wiley International, 1988
- *2. *Introduction to Digital Communications*
- Rodger E. Ziemer, Roger L. Peterson
- Prentice Hall International, Inc., 2001
- *3. *Digital Communications*
- JG Proakis
- McGraw-Hill International, 2001
- *4. *Digital Communications (Fundamentals and Applications)*
- B Sklar
- Prentice Hall International, Inc., 2001

EE4103 CODING THEORY & APPLICATIONS

by A/P Victor Krachkovsky & A/P HK Garg

- *1. *Error Control Coding, Fundamentals and Applications*
- S. Lin and D. J. Costello
- Prentice Hall, 1983
- *2. *Digital Transmission of Information*
- RE Blahut
- Addison-Wesley Publishing Co., 1990
- *3. *Principles and Practice of Information Theory*
- RE Blahut
- Addison-Wesley Publishing Co., 1988
- *4. *Digital Modulation and Coding*
- SE Wilson
- Prentice Hall, 1996
- *5. *Error Control Systems for Digital Communication and Storage*
- SB Wicker
- Prentice Hall, 1995

- *6. *Codes for Mass Data Storage Systems*
 - KAS Immink
 - Shannon Foundation Publishers, 1999
- *7. *Principles of Digital Communication and Coding*
 - AJ Viterbi and JK Omura
 - McGraw-Hill Book Co., 1979
- *8. *Digital Coding of Waveforms, Principles and Applications to Speech and Video*
 - N.S. Jayant and P. Noll
 - Prentice Hall, 1984
- *9. *Digital Communications*
 - J.G.Proakis
 - 3rd Edition, Mc-Graw Hill, Inc., 1995
- *10. *Digital Signal Processing*
 - J.G.Proakis & D.G.Manolakis
 - 3rd Edition, Prentice Hall, Inc., 1996

EE4204 COMPUTER NETWORKS

By Dr LJ Ian Thng

- 1. Data and Computer Communications
 - W Stallings
 - 5th Edition, Prentice-Hall, 1996.
- *2. *Computer Networks*
 - AS Tanenbaum
 - 2nd Edition, Prentice-Hall, 1989.
- *3. *Data Networks*
 - D Bertsekas and R Gallager
 - 2nd Edition, Prentice-Hall, 1992.
- *4. *Internetworking with TCP/IP Vol I: Principles, Protocols and Architecture*
 - D Comer
 - Prentice-Hall, 1988.

EE4304/ME4245 ROBOTICS

by Dr V Prahlad & Dr. Etienne Burdet (MPE Dept)

- 1. Introduction to Robotics: Mechanics and Control
 - JJ Craig
 - 2nd Edition, Addison-Wesley, 1989
- *2. *Modeling and Control of Robot Manipulators*
 - L Sciavicco and B Siciliano
 - McGraw Hill, 1996
- *3. *Robotics: Control, Sensing, Vision, and Intelligence*
 - KS Fu, RC Gonzalez and CSG Lee
 - McGraw-Hill, 1987
- *4. *Robot Dynamics and Control*
 - MW Spong and M Vidyasagar
 - Wiley, 1989

- *5. *Robot Manipulators: Mathematics, Programming and Control: The Computer Control of Robot Manipulators*
- RP Paul
- MIT Press, Cambridge, Mass., 1981
- *6 *Robot Analysis and Control*
- Asada, H., and Slotine, J. -J.E.
- John Wiley and Sons, 1986

EE4305/ME4247 INTRODUCTION TO FUZZY/NEURAL SYSTEMS

by Dr KC Tan & Dr CM Chew (MPE Dept)

- 1. Fuzzy sets, uncertainty, and information
- GJ Klir and TA Folger
- Prentice-Hall, 1992
- 2. An introduction to fuzzy control
- D Driankov, H Hellendoorn, M Reinfrank
- Springer - Verlag, 1993
- *3. *Fuzzy Sets and Fuzzy Logic - Theory and Applications*
- GJ Klir and B Yuan
- Prentice-Hall, 1995
- *4. *Neural Networks: A comprehensive Foundation*
- Simon Haykin
- Prentice-Hall, 1994

IE4291 QUALITY ENGINEERING (replace EE4405)

Dr LC Tang (ISE Dept) & Dr Xie Min (ISE Dept)

Please refer to IVLE Course Website