SECOND SEMESTER
BOOKLIST 2008

ELEC1601 – Foundations of Computer Systems
Unit Co-ordinator: A/PROF DAVE LEVY
The Essentials of Computer Organization and Architecture
Null
(Jones and Bartlett USA) B170061

ELEC2104 – Electronic Devices and Basic Circuits
Unit Co-ordinator: DR SWAMIDOSS SATHIAKUMAR
Electrical Engineering: Principles & Applications
Allan R, Hambley

ELEC2302 – Signals and Systems
Unit Co-ordinator: DR XIAOKE YI
Linear Systems and Signals
BP Lathi

ELEC3105 – Circuit Theory and Design
Design of Analog Filters
Rolf Schaumann & Mac van Valkenburg

ELEC3205 – Electrical Energy Systems & Management
Unit Co-ordinator: DR DYLAN LU
Renewable and Efficient Power Systems
GM Masters

Power-switching Converters
S Ang and A Oliva
(CRC press), 2005

Spice For Power Electronics & Electric Power
Rashid (CRC Press (tf)), 1997

ELEC3304 – Control
Unit Co-ordinator: DR YASH SHRIVASTAVA
Control Systems Engineering
NS Nise

ELEC3405 – Communications Electronics and Photonics
Unit Co-ordinator: DR XIAOKE YI
Lecture notes supplied.

Microelectronic Circuits
S Sedra, Kenneth C Smith
(Oxford Press)

Fiber-Optic Communication Systems
Govind P Agrawal
(Wiley)

ELEC3506 – Data Communications and the Internet
Unit Co-ordinator: PROF BRANKA VUCETIC
Lecturers: DR LAVY LIBMAN, DR ZHENDONG ZHOU
Computer Networking a Top Down Approach Featuring The Internet
James F Kurose & Keith W Ross

Data Communications Networking
Behrouz A Forouzan

Computer Networks
Andrew S Tanenbaum

ELEC3607 – Embedded Computing
Unit Co-ordinator: DR JIM RATHMELL
Microcontroller Technology: The 68HC11
P Spasov

Microcontroller Technology: The 68HC12
P Spasov
(Pearson Education)

ELEC3609 – Internet Software Platforms
Unit Co-ordinator: A/PROF DAVE LEVY
Lecturer: DR FRANK MOISIADIS
No text

ELEC3702– Management for Engineers
Unit Co-ordinator: DR XIHENG HU
Lecturer: PROFESSOR RON JOHNSTON
Engineering Management: Challenges in the New Millenium
CM Chang
(Pearson), ISBN 013-144678-9

Professional Engineering
R. Johnston
(McGraw Hill), 2008
ELEC5101 – Antennas and Propagation
Unit Co-ordinator: PROFESSOR BRANKA VUCETIC
Lecturer: PROF GODFREY LUCAS

Antennas
RECOMMENDED TEXT
John D Kraus

Antenna Theory and Design
RECOMMENDED
Warren L Stutzman and Gary A Thiele

The Services Textbook of Radio - Transmission and Propagation
Glazier and Lamont (a very old book and very hard to obtain)

Advanced Engineering Electromagnetics
RECOMMENDED
CA Balanis

Electromagnetics
RECOMMENDED
John D Kraus

Radio Astronomy
RECOMMENDED
John D Kraus

Microwave Antenna Theory and Design
RECOMMENDED
Samuel Silver
(McGraw-Hill)

Modern Methods of Reflector Antenna Analysis and Design
RECOMMENDED
Craig Scott
(Artech House)

ELEC5203 – Topics in Power Engineering
Unit Co-ordinator: PROF VASSILIOS AGELIDIS
No text required.

Power Electronics: Converters, Applications and Design
RECOMMENDED
N. Mohan, T.M. Undeland, and W.P. Robbins
(J. Wiley & Sons, Inc.), 2003 International Edition

Power Electronic Control in Electrical Systems
RECOMMENDED
E Acha, VG Agelidis, O Anaya-Lara and TJ Miller

Understanding FACTS: Concepts and Technology of Flexible AC Transmission systems
NG Hingorani and L Gyugyi

Understanding Power Quality Problems: Voltage Sags and Interruptions
RECOMMENDED
MHJ Bollen

Power Quality in Power Systems and Electrical Machines
RECOMMENDED
EF Fuchs and MAS Masououm

Power Distribution System Engineering
RECOMMENDED
T Gonen

ELEC5303 – Computer Control System Design
Unit Co-ordinator: DR YASH SHRIVASTAVA
Lecturer: DR FRANK MOISIADIS

Computer Controlled System: Theory and Design
TEXT
Astrom and Wittenmark
(Prentice Hall), 3rd Edition

ELEC5508 – Wireless Engineering
Unit Co-ordinator: PROFESSOR BRANKA VUCETIC
Lecturers: Dr Zhou Chen/Dr Zainab Zaidi

Mobile Communications
TEXT
B958744

Wireless Communications
TEXT
B867910

ELEC5510 – Satellite Communications Systems
Unit Co-ordinator: PROFESSOR BRANKA VUCETIC
Lecture Notes – no text.

Satellite Communications: Mobile and Fixed Services
Miller, MJ, Vucetic, B, Berry, L
(Kluwer Academic Publishers), 1993
ISBN 0-7923-9333-3

Satellite Communications
RECOMMENDED
Dennis Roddy

Digital Communications by Satellite
RECOMMENDED
Bhargava, V., et al

Satellite Communication Systems
RECOMMENDED
Maral, G and Bousquet, M
(Peregrinus), 1993

Digital Communications – Satellite/Earth Station Engineering
Feher, K
(Prentice Hall), 1981.

Introduction to Satellite Communication
RECOMMENDED
Elbert, B R
(Artech House), 1999.

Satellite Communications Systems
RECOMMENDED
Maral, G and Bousquet, M
(Wiley), 1998.

ELEC5512 – Optical Networks
Unit Co-ordinator: A/PROF JAVID ATAI

Optical Networks: A practical perspective
TEXT
Ramaswami and Sivarajan

ELEC5514 – Network Embedded Systems
Unit Co-ordinator: PROF BRANKA VUCETIC
Lecturers: DR ATHANASSIOS BOULIS, DR ZIHUAI LIN

Principle of Embedded Network Design
TEXT
Pottie and Kaiser
(Cambridge University Press), Fall 2004.
ELEC5614 – Real Time Computing
Unit Co-ordinator: A/PROF DAVE LEVY
No text.

Real-Time Systems and Programming Languages
Burns A and Wellings A, RECOMMENDED

Real-time Systems: Design Principles for Distributed
Embedded Applications RECOMMENDED
Kopetz
(Kluwer Academic Kap)

ELEC5619 – Object Oriented Application Frameworks
Unit Co-ordinator: DR RAFAEL CALVO
No text.

Spring in Action RECOMMENDED
C Walls and R Breidenbach
(Manning Publications)

ELEC5701 – Commercial Engineering Practice
Unit Co-ordinator: A/PROF STEVE SIMPSON
Lecturer: MR A YAPNIDJIAN
Management for Engineers RECOMMENDED
Danny Sampson

Getting To Yes RECOMMENDED
Roger Fisher, William Ury and Bruce Patton

Information Technology Project
Management RECOMMENDED
Kathy Schwalbe