FIRST SEMESTER 2011 BOOKLIST

ELECTRICAL AND INFORMATION ENGINEERING

ELEC1103 – Fundamentals of Electrical & Electronic Engineering
Unit Co-ordinator: DR CRAIG JIN
Basic Engineering Circuit Analysis TEXT
J David Irwin and R Mark Nelms

ENGG1805 – Professional Engineering and IT
Unit Co-ordinator: DR GEOFF KENNEDY
Lecturer: A/PROFS RAFAEL CALVO/PHILIP LEONG
No text required. Notes will be on the web.

ELEC2004 – Electrical Engineering: Foundations
Unit Co-ordinator: DR KUMAR SATIHKUMAR
Foundations of Electrical Engineering TEXT
JR Cogdell
Prentice Hall, B73377

ELEC2602/5722 – Digital Logic
Unit Co-ordinator: A/PROFESSOR PHILIP LEONG
Fundamentals of Digital Logic with TEXT
Stephen Brown and Zvonko Vranesic

ELEC3104/5730 – Engineering Electromagnetics
Unit Co-ordinator: A/PROFESSOR JAVID ATAI
Fundamentals of Applied Electromagnetics TEXT
Ulaby & Michielssen & Ravaiol

ELEC3204/5733 – Power Electronics and Applications
Unit Co-ordinator: DR DYLAN LU
Power Electronics: Converters, Applications, TEXT and Design
Ned Mohan, Tore M. Undeland, and William P. Robbins

ELEC3206/5734 – Electrical Energy Conversion Systems
Unit Co-ordinator: DR DYLAN LU
Electric Machinery Fundamentals TEXT
SJ Chapman

ELEC3305/5736 – Digital Signal Processing
Unit Co-ordinator: DR YASH SHRIVASTAVA
Fundamentals of Digital Signal Processing TEXT
Joyce Van de Vegte

ELEC3404/5737 – Electronic Circuit Design
Unit Co-ordinator: DR ALISTAIR MCEWAN
Microelectronic Circuits TEXT
Sedra/Smith

ELEC3505/5739 – Communications
Unit Co-ordinator: DR ABBAS JAMALIPOUR
Communication Systems TEXT
Haykin, S

Communication Systems RECOMMENDED
A Bruce Carlson

Digital Communications RECOMMENDED
Bernard Sklar

Introduction to Wireless Systems RECOMMENDED
Bruce A Black et al.,

ELEC3607/5741 – Embedded Computing
Unit Co-ordinator: A/PROFESSOR PHILIP LEONG
No text.
The Definitive Guide to the ARM RECOMMENDED
J Yiu
Cortex-M3
ISBN: 750685344

ELEC3610/5743 – E-Business Analysis and Design
Lecturer: DR RAFAEL CALVO
No text required.

ELEC3802 – Fundamentals of Biomedical Engineering
Unit Co-ordinator: DR ALISTAIR MCEWAN
Lecturer: DR PETER NICKOLLS
No text required. Notes will be on the web.

ELEC4505/5744 – Digital Communication Systems
Unit Co-ordinator: PROFESSOR BRANKA VUCETIC
Lecturer: DRS ZHOU CHEN/WEI WEI ZHANG
Communications Systems Engineering TEXT
Proakis & Selchi
ELEC4706 – Project Management
Unit Co-ordinator: PROFESSOR BRANKA VUCETIC
Lecturer: MR AREK YAPOUDJIAN
Project Management: A Project Based Introduction
plus downloadable and handout material as advised

ELEC5203 – Topics in Power Engineering
Unit Co-ordinator: DR SWAMIDOSS SATHIAKUMAR
No text required. Notes will be on the web.

ELEC5204 – Power Systems Analysis and Protection
Unit Co-ordinator: DR SWAMIDOSS SATHIAKUMAR
No text required. Notes will be on the web.

ELEC5205 – Computer Controlled System Design
Unit Co-ordinator: DR YASH SHRIVASTAVA
Computer-Controlled Systems: Theory and Design, 3e
Karl Johan Astrum and Bjorn Wittenmark (Prentice-Hall), ISBN: 9780133148992

ELEC5402 – Digital Integrated Circuit Design
Unit Co-ordinator: DR ALISTAIR MCEWAN
Integrated Circuit Design
Neil Weste and David Harris (Addison Wesley), 22674 9780321696946 4th Edition, 2010

ELEC5403 – Radio Frequency Engineering
Unit Co-ordinator: DR ABBAS JAMALIPOUR
Lecturer: PROFESSOR GODFREY LUCAS
Microwave Engineering
Pozar, David M
(John Wiley) B012242

ELEC5507 – Error Control Coding
Unit Co-ordinator: PROFESSOR BRANKA VUCETIC
Lecturers: DR RAYMOND LOUIE
No textbook. Lecture notes supplied.

ELEC5509 – Mobile Networks
Unit Co-ordinator: DR ABBAS JAMALIPOUR
The Wireless Mobile Internet
Abbas Jamalipour

ELEC5511 – Optical Communication Systems
Unit Co-ordinator: PROFESSOR ROBERT MINASIAN
Fibre-optic Communication Systems
G Agrawal
(Wiley), 2002

ELEC5614 – Real Time Computing
Unit Co-ordinator: A/PROFESSOR DAVE LEVY
Real-time Systems and Programming
Burns and Wellings
ELEC5616 – Computer and Network Security
Unit Co-ordinator: A/PROFESSOR DAVE LEVY
Lecturer: MR MATT BARRIE
Cryptography and Network Security: TEXT
Principles and Practice
William Stallings

ELEC5618 – Software Quality Engineering
Unit Co-ordinator: A/PROFESSOR DAVE LEVY
Lecturer: DR FRANK MOISIADIS
No text required. Notes will be on the web.
Software Quality Assurance RECOMMENDED
Galin
(Addision Wesley) B021273 9780201709452
Mythical Man-Month, essay on Software Engineering RECOMMENDED
Brooks
(Addison Wesley),cdn 02E95