**FIRST SEMESTER 2012 BOOKLIST**

**ELECTRICAL AND INFORMATION ENGINEERING**

**ELEC1103** – Fundamentals of Electrical & Electronic Engineering  
*Unit Co-ordinator: DR CRAIG JIN*  
*Electric Circuits, 9th Edition*  
By James W. Nilson, Susan Riedel  

**ELEC2004** – Electrical Engineering: Foundations  
*Unit Co-ordinator: DR KUMAR SATHIKAUMAR*  
Foundations of Electrical Engineering  
Jr. Cogdell  
(Prentice Hall), B733777

**ELEC2602/5722** – Digital Logic  
*Unit Co-ordinator: DR ELAINE OU*  
Fundamentals of Digital Logic with VHDL Design  
Stephen Brown and Zvonko Vranesic  

**ELEC3104/5730** – Engineering Electromagnetics  
*Unit Co-ordinator: A/PROF JAVID ATALI*  
Fundamentals of Applied Electromagnetics  
Fawwaz T Ulaby  

**ELEC3203/5732** – Electricity Networks  
*Unit Co-ordinator: DR GREGOR VERBIC*  
Power System Analysis  
Saadat Hadi  
(McGraw-Hill), 978-0-470-28060-6

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

**ELEC3305/5736** – Digital Signal Processing  
*Unit Co-ordinator: DR YASH SHRIVASTAVA*  
Fundamentals of Digital Signal Processing  
Joyce Van de Veete  
(Prentice Hall), 1st Edition, B982532 9780130160775

**ELEC3404/5737** – Electronic Circuit Design  
*Unit Co-ordinator: DR ALISTAIR MCEWAN*  
Microelectronic Circuits  
Sedra/Smith  
(Oxford Uni Press) 5th Edition

**ELEC3505/5739** – Communications  
*Unit Co-ordinator: PROF ABBAS JAMALIPOUR*  
Communication Systems  
Simon Haykin & Michael Moher  

**ELEC3607/5741** – Embedded Computing  
*Unit Co-ordinator: A/PROF PHILIP LEONG*  
No text.

**ENGG1805** – Professional Engineering and IT  
*Unit Co-ordinators: A/PROF PHILIP LEONG*  
Lecturer: Gaetano Gargiulo  
SiT/AMME  
No text required. Notes will be on the web.

**ELEC3204/5733** – Power Electronics and Applications  
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Power Electronics: Converters, Applications, and Design  
Ned Mohan, Tore M. Underland, and William P. Robbins  

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Joyce Van de Veete  
(Prentice Hall), 1st Edition, B982532 9780130160775

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Communication Systems  
Simon Haykin & Michael Moher  

**ELEC3607/5741** – Embedded Computing  
*Unit Co-ordinator: A/PROF PHILIP LEONG*  
No text.

**ELEC3610/5743** – E-Business Analysis and Design  
*Lecturer: DR RAFAEL CALVO*

ELEC3802 – Fundamentals of Biomedical Eng
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: DR GUOQIANG MAO
Communications Systems Engineering
Text

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

Power Systems Analysis & Design
J Glover and M Sarma.

ELEC5208 – Intelligent Grid Technologies
Unit Co-ordinator: PROF DAVID HILL

ELEC5303 – Computer Control System Design
Unit Co-ordinator: DR YASH SHRIVASTAVA
Karl Johan Astrom and Bjorn Wittenmark (Prentice-Hall), ISBN: 9780133148992

ELEC5402 – Digital Integrated Circuit Design
Unit Co-ordinator: DR ALISTAIR MCEWAN
CMOS VLSI Design
Text
Neil Weste and David Harris (Addison Wesley), B022674 9780321149015

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

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

Error Control Coding
Text
S Lin and D Costello (Pearson Prentice Hall), 2004

ELEC5509 – Mobile Networks
Unit Co-ordinator: PROF ABBAS JAMALIPOUR
The Wireless Mobile Internet
Text

Introduction to Wireless Systems
RECOMMENDED

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

Fiber Optic Communications
RECOMMENDED

ELEC5514 – Real Time Computing
Unit Co-ordinator: A/PROF RAFAEL CALVO
Lecturer: Mr Fotios Moisiadis
Real-Time Systems and Programming Languages
Burns A and Wellings A

ELEC5616 – Computer and Network Security
Unit Co-ordinator: A/PROF PHILIP LEONG
Lecturer: MR MATT BARRIE
Cryptography and Network Security: Principles and Practice
William Stallings

ELEC5618 – Software Quality Engineering
Unit Co-ordinator: A/PROF RAFAEL CALVO
Lecturer: MR FOTIOS MOISIADIS
Software Quality Assurance
Galin
(Addison Wesley) B021273 9780201709452

Mythical Man-Month, essay on Software Engineering
Brooks
(Addison Wesley), edn 02E95