ELEC4301: Digital Communications and Networking

Unit Co-ordinator: Dr. Defeng (David) Huang, <huangdf@ee.uwa.edu.au>
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IMPORTANT Notices: Please check your email regularly (at least once a week if not more often) for important information regarding assessment, deadlines, clarifications and changes. Important notices may also be posted on the Unit Page: http://student.ee.uwa.edu.au/units/elec4301/notices

Prerequisites: ELEC3302 (Communications Systems)
Assumed Prior Knowledge: Familiarity with MATLAB syntax, basic programming, and using online function help

Teaching Staff

Weeks 9 and 10, and Monday of Week 11
Lower layers of communication networks

Lecturer in charge: Prof. Antonio Cantoni

From Wednesday of Week 11 to the end of the semester (no lecture on Anzac Day, Monday, April 27, the lecture on PROSH Day (Wednesday, April 1) cancelled)

Digital communications and higher layers of communication networks

Lecturer in charge: Dr David Huang

Textbooks

Reference books
- Proakis, J.G. "Digital Communications", 4th Ed., McGraw-Hill, 2001 (the “bible” with all the real maths and analyses required (raw and uncut), used by MATLAB to design the Communications Toolbox; too advanced for under-graduates, but ideal for researchers and post-graduates)
- Ziemer R.E, Peterson R.L. "Introduction to Digital Communication", 2nd Ed., Prentice-Hall 2001 (OK alternative textbook for undergraduates, relevant chapters are 4,5,6 and 7)
- Stallings, W. Data and computer communications, Prentice-Hall.
- Tanenbaum, A. S., Computer Networks, Pearson Education.
Assessment

10%   DC MATLAB Assignment (from Dr. David Huang)
10%   NET Take-Home Test One (from Dr. David Huang)
10%   NET Take-Home Test Two (from Prof. Antonio Cantoni)
70%   Exam

Important Policy and Regulatory Information

Unit marks may be scaled in line with the Faculty's Policy on Assessment Practices and Procedures (see http://www.ecm.uwa.edu.au/for/students/assess).

The final exam will be subject to the Faculty policy on approved calculators (http://www.ecm.uwa.edu.au/for/students/calculators).

No supplementary examinations will be available for the unit.

Please be sure you are familiar with the University Guidelines on Academic Misconduct (see http://www.ecm.uwa.edu.au/for/students/plagiarism).

Please be sure you are familiar with the Faculty Policy for Appeals (see http://www.ecm.uwa.edu.au/for/students/exams).

Did you know about the Charter of Student Rights (see http://www.secretariat.uwa.edu.au/home/policies/charter)?