



ELEC 6026/ ELEC 8004 - Digital Signal Processing

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I. COURSE OUTLINE

Objective: To appreciate the fundamental concept, techniques and applications of DSP.

- □ **DISCRETE-TIME SIGNALS AND SYSTEMS**
- □ **MULTI-DIMENSIONAL SIGNALS AND SYSTEMS**
- □ **RANDOM PROCESSES AND APPLICATIONS**
- □ **ADAPTIVE SIGNAL PROCESSING**



REFERENCES:

- A.V. Oppenheim and R. W. Schafer,
Discrete-time signal processing.
Prentice Hall, 1989 (new edition available).
 - D.E. Dudgeon and R.M. Mersereau,
Multidimensional digital signal processing.
Prentice Hall, 1984.
 - J. Lim Ed.
Advanced topics in Signal Processing.
Prentice Hall. 1988.
 - J. Proakis et al.
Advanced Digital Signal Processing.
Macmillan, 1992 (new edition available).
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COURSE ADMINISTRATION

Assessment

ELEC6026

- 80% examination + 20% assignment.

ELEC8004

- 60% examination + 20% project + 20% assignment.

Details will be announced later.



Lecture hours

- 2 hours lecture + half an hour tutorial.
 - 30 hours for MSc. and 40 hours for RPG students.
 - Extra 10 hours will be assigned to cover advanced DSP topics for RPG students (ELEC8004).
 - T.A. : Mr. H. J. Tan (hjtan@eee.hku.hk)
Mr. L. Zhang (lizhang@eee.hku.hk)
Mr. X. G. Wei (xgwei@eee.hku.hk)
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