

**King Fahd University of Petroleum & Minerals**  
**Department of Electrical Engineering**  
**EE 663 – Image Processing**  
**Second Semester (082)**

**Course Information**

Instructor: Dr. Samir H. Abdul-Jauwad  
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Textbook: Digital Image Processing, 2<sup>nd</sup> Edition,  
by Rafael C. Gonzalez and Richard E. Woods

Digital Image Processing Using MATLAB,  
by Rafael C. Gonzalez, Richard E. Woods, and Steven Eddins

Course Web Site: <http://faculty.kfupm.edu.sa/ee/samara/page6.html>

- References:
1. Digital Image Restoration  
by H.C. Andrews, and B.R. Hunt
  2. Applications of Digital Signal Processing  
by Alan V. Oppenheim, Editor
  3. Signals and Systems  
by A.V. Oppenheim, A.S. Wilsky, and I.T. Young
  4. Digital Image Processing  
by W.K. Pratt
  5. Digital Image Processing for Remote Sensing  
by Ralph Bernstein, Editor
  6. Fundamentals of Digital Image Processing  
by Anil K. Jain

**Tentative Course Outlines**

Chapter	Sections
1	1.1, 1.2, 1.3, 1.4, 1.5
2	2.1, 2.2, 2.3, 2.4, 2.5, 2.6
3	3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8
4	4.1, 4.2, 4.3, 4.4, 4.5, 4.6
5	5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.11
6	6.1, 6.2, 6.3.1, 6.3.2 (Entropy), 6.3.4, 6.4.1 (Huffman & Arithmetic), 6.4.2 (Bit-plane coding & decomposition), 6.6.1, 6.5.2, 6.6.2
7	7.1, 7.2, 7.3, 7.4, 7.5, 7.6
8	8.1, 8.2, 8.3, 8.4, 8.5, 8.6

**Grade Distribution:**

Major Exam: 20%  
Assignments: 10%  
Projects: 40%  
Final Exam: 30%