King Fahd University of Petroleum & Minerals
Department of Electrical Engineering
EE 663 – Image Processing
Second Semester (162)

Course Information

Instructor: Dr. Samir H. Abdul-Jauwad
Office: 59 – 1070
Email: samara@kfupm.edu.sa
Phone: (013) 860 – 2337

Textbook: Digital Image Processing, 3RD Edition,
                By Rafael C. Gonzalez and Richard E. Woods
Course Webpage: 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

1. Introduction

2. Digital Image Fundamentals

3. Intensity Transformation and Spatial Filtering

4. Filtering in the Frequency Domain

5. Image Restoration and Reconstruction

6. Color Image Processing

7. Wavelets and Multi Resolution Processing

8. Image Compression

Grade Distribution

Project 1   15%
Project 2   15%
Project 3   15%
Project 4   15%

Midterm Exam   20%

Final Exam   20%