

Digital Image Processing Course syllabus – Undergraduate Studies – stage 4th
Geomatics (Surveying) Engineering Department
academic study year 2022-2023
Salahaddin University-Erbil

Lecture	Topics
1	Introduction and required course materials
2	Principles and fundamentals of Image processing
3	Digital Image Analysis
4	Processing of Image
5	Noise removal
6	Radiometric correction
7	Geometric correction
8	Image Enhancement
9	Contrast manipulation
10	Gray level thresholding
11	Level slicing
12	Contrast stretching
13	Spatial filtering: Low pass and high pass
14	Convolution technique

References:

- John Jensen (2016). "**Introductory Digital Image processing: A Remote Sensing Perspective**"(4th edition.). Prentice-Hall - ISBN: 0-13-145361-0
- Robert Schowengerdt (2007). "**Remote Sensing: Models and Methods for Image processing**" (3rd edition). Elsevier. ISBN: 0-12-369407-8
- Research article handouts.
- Links to websites covering different topics.