



## Course Weekly Outline

### Course Name : Digital Image Processing I

<b>Course Instructor</b>	Muzhir shaban mohammed				
<b>E-mail</b>	muzhir_shaban@yahoo.com				
<b>Title</b>	Prof.				
<b>Course Coordinator</b>	Muzhir shaban mohammed				
<b>Course Objective</b>	Provide students the fundamental aspects of digital image processing by applying mathematics and algorithms using Matlab package.				
<b>Course Description</b>	Fundamental course of digital image processing.				
<b>Textbook</b>	Rafael C. Gonzalez, Richard E. Woods, Steven L. Eddins, "Digital Image Processing Using MATLAB", (2nd edition), Publication Date: 2009   ISBN-13: 978-0982085400 .				
<b>References</b>	Rafael C. Gonzalez, Richard E. Woods, "Digital Image Processing" (3rd edition), Publication Date: August 31, 2007   ISBN-10: 013168728X   ISBN-13: 978-0131687288. Muzhir Shaban Al-Ani, Digital Image Processing Using Matlab, Publication Date: 2008, Dar Ethraa, UAE, ISBN 001,6425				
<b>Course Assessments</b>	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%		10%	10%	60%
<b>General Notes</b>	The best method to teach this course it must be started in parallel with Matlab applications.				



### Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	26/10/2015	1D and 2D digital signal processing, fields of processing.		
2	02/11/2015	Elements of digital image processing system and human visual system.		
3	09/11/2015	Electromagnetic spectrum, TV signal transmitting, receiving and TV systems.		
4	16/11/2015	Image representation and digital image files formats.		
5	23/11/2015	Image analysis and histogram representation and histogram equalization.		
6	30/11/2015	Image preprocessing and image enhancement.		
7	07/12/2015	Gray scale image modification.		
8	14/12/2015	Mid Examine.		
9	21/12/2015	Linear and nonlinear mapping.		
10	28/12/2015	Convolution and correlation processes.		
11	04/01/2016	Types of 2D filtering compared with 1D filtering.		
12	11/01/2016	Algebraic operations on images.		
13	18/01/2016	Color Space and image Sampling.		
14	25/01/2016	Application of image processing in real life.		
15	01/02/2016	Application of image processing using Matlab.		

1 / 12 / 2015  
Instructor Signature:

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