



## Course Weekly Outline

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<b>Title</b>	Assistant Prof				
<b>Course Coordinator</b>					
<b>Course Objective</b>	Declare the fundamental concept of multimedia, its applications and components				
<b>Course Description</b>	Computer graphics, image, sound and video				
<b>Textbook</b>					
<b>References</b>	Coding and information theory by Richard w. hamming				
<b>Course Assessment</b>	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	20 %	10%	----	50%
<b>General Notes</b>					



## Course weekly Outline

week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	1/10/2014	What is multimedia		
2	12/10/2014	Component of multimedia		
3	19/10/2014	Multimedia research & projects		
4	26/10/2014	Multimedia applications		
5	2/11/2014	Multimedia on the web		
6	9/11/2014	What is computer graphics		
7	16/11/2014	Lines drawing algorithms		
8	23/11/2014	Circle drawing algorithms		
9	30/11/2014	2D transform : translation, scaling		
10	7/12/2014	Rotation, reflection, shearing		
11	14/12/2014	Image Basic concept		
12	21/12/2014	Image digitization		
13	28/12/2014	Spatial resolution and quantization		
14	4/1/2015	Type of image		
15	11/1/2015	Image file formats		
<b>Half-year Break</b>				
16	8/2/2015	Arithmetic operation on image		
17	15/2/2015	Logical operation an image		
18	22/2/2015	Image histogram		
29	1/3/2015	Histogram modification and Histogram equalization		
20	8/3/2015	Noise and type of noise		
21	15/3/2015	What is sound		
22	22/3/2015	Digitization of sound		
23	29/3/2015	Nyquist theorem		
24	5/4/2015	Synthetic sound		
25	12/4/2015	Quantization and transmission of Audio		
26	19/4/2015	Compression of audio		
27	26/4/2015	What is video		
28	3/5/2015	Video color models		
29	10/5/2015	Type of video signals		
30	17/5/2015	Video compression		

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