



## Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Artificial intelligent Introduction Definition	Matlab installation	
2		Artificial intelligent Applications, Programming	Matlab component	
3		Characteristic of A.I. Programming language and A.I., Problem Solving	First program execution	
4		Graph Theory ,travel sales man problem	Input \Output statement	
5		8-puzzel Game , Search method	IF statement	
6		Systematic Methods,	for,while statement	
7		Depth – First Search	case statement	
8		Breadth – First Search	1-dimention,2-dimention matrix	
9		Heuristic Methods, Hill – Climbing Search	Problems, Depth – First, Breadth – First	
10		Best – First Search	Problems, Hill – Climbing, Best – First	
11		A Star (A*) algorithm	Problems, A Star (A*)	
12		Artificial Neural Network(ANN),Introduction	ANN in matlab	
13		ANN component, How Are ANN used Common Activation functions, ANN Architecture	Practical examples	
14		○ Application(logical Function)	Practical examples	
15		Hebb Net (Algorithm, Applications)	Practical examples support the theoretical part	
16		Perceptron Net (Algorithm, Applications)	Practical examples support the theoretical part	
Half-year Break				
17		Adaline Net (Algorithm, Applications)	Practical examples support the theoretical part	
18		Madaline Net (Algorithm, Applications)	Practical examples support the theoretical part	
19		Pattern Association ,Introduction, Hebb rule ,Outer Production	Practical examples support the theoretical part	

20		<b>Hetro Associative Memory N.N, (Architecture, Algorithm)</b>	<b>Practical examples support the theoretical part</b>	
21		<b>( Applications)</b>	<b>Practical examples support the theoretical part</b>	
22		<b>Auto Associative Memory N.N, (Architecture, Algorithm, Applications</b>	<b>Practical examples support the theoretical part</b>	
23		<b>(Applications)</b>	<b>Practical examples support the theoretical part</b>	
24		<b>Discrete Hopfield Net</b>	<b>Practical examples support the theoretical part</b>	
25		<b>Expert System ( Introduction, Architecture, Characteristic )</b>	<b>Practical examples support the theoretical part</b>	
26		<b>Knowledge representation</b>	<b>Practical examples support the theoretical part</b>	
27		<b>Fact and rule, Production system and rule base</b>	<b>Practical examples support the theoretical part</b>	
28		<b>Application of Expert System</b>	<b>Practical examples support the theoretical part</b>	
29		<b>The role of expert system in learning by computer</b>	<b>Practical examples support the theoretical part</b>	
30		<b>Genetics algorithm ( Introduction, Characteristic )</b>	<b>Practical examples support the theoretical part</b>	
31		<b>Applications</b>	<b>Practical examples support the theoretical part</b>	
32		<b>Examples</b>	<b>Practical examples support the theoretical part</b>	