Republic of Iraq The Ministry of Higher Education and Scintific Resrearch Supervision and Scientific Evaluation Body



College: Shatt Al Arab University College Department: Computer

Science

Stage: Third Lecturer Name: Asst lec.

Dhuha Khalaf Shayal Academic Status : M.S.c

Course Weekly Outline

Course Weekly Outline							
Course Lecturer	Dhuha Khalaf Shayal						
e-mail	duhakhalf@sa-uc.edu.iq						
Title	Information Theory						
Course Coordinator							
Course Objective	When was it established? Why and What are the basics of information theory and the basics of effective code also many measures of content.						
Course Description	The general model of communication, random variable, probability, entropy, channel coding, subjective information, information compression.						
Textbook	Information Theory						
References	Introduction to information theory and coding						
Course Assessment	Term Exam	Project	Quizzes and Attendance	Final Exam			
	17		3	60			
General Notes							

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Khalaf Shayal

Academic Status : M.S.c

Week	Date	Topics Covered	Number of Hours	Notes
1	2-10-2022	Operations Applied To Information + Communication System Model		
2	9-10-2022	Random Variable + Probability + Sum Of Probabilities		
3	16-10-2022	Complementary Probability + Probability Of Intersection Or Joint Probability		
4	23-10-2022	The Probability Of Mutually Exclusive Choice + The Conditional Probability		
5	30-10-2022	Self-Information And Ambiguity		
6	6-11-2022	Conditional Ambiguity		
7	13-11-2022	Shared Information		
8	20-11-2022	Common Entropy, Conditional Entropy, And Common Information Upstream Coding		
9	27-11-2022	Entropy		
10	4-12-2022	Common Entropy		
11	11-12-2022	Conditional Entropy		
12	18-12-2022	Common Entropy, Conditional Entropy, And Common Information		
13	25-12-2022	Source Coding		
14	8-1-2023	Entropy and the Arabic language		

15		Entropy and the Arabic language	
13	15-1-2023	Entropy and the Arabic language	
	22 1 2022	F.,4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
16	22-1-2023	Entropy and language	
		Memory source entropy	
17	29-1-2023		
	5-2-2023	Cumulus	
18	5-2-2025	Surplus	
		Excess Of Language	
19	12-2-2023		
		Marrayer Curreling	
20	19-2-2023	Memory Surplus	
20	19 2 2020		
	6-3-2023	Entropy Rate	
21			
	16-3-2023	Upstream Coding Issue	
22	10 5 2025	opstream county issue	
		Instant Decoder	
23	27-3-2023		
		Prefix	
24	5-4-2023	Ticha	
25	16-4-2023	Oscillatory Theory (Kraft)	
25	10-4-2023		
		Huffman's Algorithm	
26	27-4-2023	_	
	9-5-2023	Information Compression	
27	y-3-2023	Information Compression	
	18-5-2023	Lossless Compression Algorithms	
28			
		Loss Information Compression Algorithms	
29	5-6-2023		
30	13-6-2023	Channel Encoding	