TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

University of Anbar
University of Anbar / Computer Networks System
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Information theory and coding
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2021-2022
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Studying ways to correct erroneous information during transmission at the receiving end

11. Course Structure						
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method	
1	2	The relationship of probability to information theory	probability			
2	2	Distinguish between types of information sources	Information Sources			
3	2		Encryption methods for information sources			
4	2	Distinguish between the types of information transmission channels	information channels	documented examined	Daily exams.	
5	2	Knowing the channel capacity and how it is calculated	channel capacity		surprise exams, documented exams, semester exams,	
6	2	Knowing the methods of sending information after changing its codes	Encryption of information channels	lectures	final exams, oral questions and discussions during	
7	2	Knowing the	Recover one-mistake information		lectures, homework	
8	2	Knowing the	Multiple Error Information Recovery			
9	2	Advanced methods for recovering false information	Wrong information recovery			

12. Infrastructure

Required reading: · CORE TEXTS

· COURSE MATERIALS

· OTHER

Essential of information theory- P.G. Farrell Modern digital and analog communication systems-B.P. Lathi

Special requirements (include for example workshops, periodicals, IT software, websites)	Error control coding fundamental and applications.
Community-based facilities (include for example, guest Lectures , internship , field studies)	Elements of Information Theory 2nd Edition (Wiley Series) Information Theory and Statistical Mechanics. II
	http://www.careerride.com/mcq-tag- wise.aspx?Key=Information%20Theory&Id=2 1 http://www.gatestudy.com/wp- content/uploads/2015/09/Information- Theory-Coding.pdf

13. Admissions		
Pre-requisites		
Minimum number of students		
Maximum number of students		