Menoufiya University
Faculty of Electronic Eng.
Department of electronics and
Communications Engineering



جامعة المنوفية كلية الهندسة الألكترونية قسم هندسة الألكترونيات والأتصالات الكهربية

Annual Course Report

(Information Theory and Coding)

A- Basic Information				
1 Title and Code:				
Information Theory and Coding (EC422)				
2 Programme(s) on which this course is given	EC			
3 Academic year / Level of programme	4 th year-1 nd semester (2011/2012)			
4 Units/Weekly hours				
Lecture 3 Tutorial/Practical 2	Total 5			
5- Names of lecturers contributing to the delive	ery of the course			
i- Prof. Atef Abou Elazm				
Course coordinator: Prof. Atef Abou Elazm()				
External evaluators:				
B- Statistical Information				
No. of students attending the course: No.	334 % 100			
No. of students completing the course: No.	327 % 97.9			
Results:				
Passed: No. 313 % 95.72 Failed:	No. 14 % 4.28			
Grading of successful students:				
Excellent: No. 43 % 13.15 Very	Good: No. 105 % 32.11			
Good: No. 68 % 20.79 Pass:	No. 97 % 29.66			

C- Professional Information

1. Course Teaching

Content	No of hours	lecture	Tutorial/	Achieved
Topics			practical	ILOS
Introduction	15	9	6	A1,b1,c1,D1
Source coding	15	9	6	A1,a2,b1,b4,b15 ,c1,c7,D1,d3
Channel coding	15	9	6	A1,a2,a4,b4,b5, b15,c7,c12,D3,d 5
Line coding	10	6	4	A2,a4,a8,b5,b11 ,b15,c12,c17,D5, d7
Data Scrambler	15	9	6	A4,a8,a18,b5,b1 1,b14,c12,c17, D5,d7
SUM	70	42	28	

	Topics taught as a percentage of the	e content specified:
	<u>>90 %</u> √ 70-90 %	<70%
2.	Teaching and Learning Methods:	
	Lectures:	V
	Practical Training/ Laboratory:	
	Seminar/Workshop:	
	Class Activity:	$\sqrt{}$

	Case Study:	
O	Other Assignments/Homework: e Study ther assignments/homework: A real world project assigned. Student Assessment:	J
	Method of Assessment	Percentage of total
	Written examination	70
	Midterm exams	15
	Oral Examination	0
	Practical/laboratory work	0
	Other Assignments/class work	15
	Total	100 %
	Members of Examination Comn Prof. Atef Abou El-azm Assoc.Prof. Hamdy Sharshar Dr. Mona Shouker Role of external evaluator:	nittee:
	Role of external evaluator.	
4.]	Facilities and Teaching Materials:	
	Totally adequate	<u>√</u>
	Adequate to some extent	
	Inadequate	
5.	Administrative Constraints	
	 Students need extra hours Insufficient class rooms and Insufficient assistant staff me 	halls.
6. \$	Student Evaluation of the course:	Response of Course Team
- La	sufficient background in (Probability Tack of software program gorithms	Γheory)

7. Comments from external evaluator(s):

8. Course Enhancement:

Modification of the contents to include the vital topics of compression and encryption and new trends in coding.

Several references given

9. Action Plan for Academic Year 2011–2012

Improvement Field	Weak points	Action required	Person Responsible	Completion Date
Assessment Methods				
Quality of Teaching and Learning				
Learning resources	Not enough	Several references must be given	- Faculty - Department -Course coordinator	2012
Course content	1- All the course is devoted to coding but information theory is not limited to coding. 2- Other important topics like data compression and encryption must be studied 3- New types of codes are missing like LDPC codes.	Modification of the contents to include the vital topics of compression and encryption and new trends in coding.	- Faculty - Department -Course coordinator	2012

Course Coordinator: Prof. Atef Abou Elazm

Authorized by Department Council in:

Authorized by Faculty Council in:

Head of Department:

Prof.

Date: / /