Information Networks Annual Course Report

A- Basic Information

1. **Title and Code**   Information Networks / IT461
2. **Programme(s) on which this course is given**   Information Technology
3. **Academic year / Level of programme**   4th year / 2nd semester
4. **Units/Weekly hours**
     Lecture 3   Tutorial/Practical 3   Total 6

5. **Names of lecturers contributing to the delivery of the course**

    1. Dr.Wail Shawky Al-Kilani

Course co-ordinator: Dr.Wail Shawky Al-Kilani
External evaluator: Not assigned yet.

B- Statistical Information

No. of students attending the course: No.   108   %   100

No. of students completing the course: No.   108   %   100

Results:

Passed: No. 107   % 99   Failed: No. 1   % 1

Grading of successful students:

Excellent: No.   13   %   12   Very Good: No.   30   %   28

Good :   No.   41   %   38   Pass: No.   23   %   21

C- Professional Information
1 – Course Teaching

Topic	No of hours	Lecturer
1 Introduction • Challenges of wireless and mobile networking. • Essential backgrounds.	6	Dr.Wail Shawky Al-Kilani
2 Characteristics of Wireless Transmissions	15	Dr.Wail Shawky Al-Kilani

• Signal propagation. • Path loss and fading. • Multiplexing. • Modulation. • Cellular systems • Spread spectrum		
3 Medium Access Control (MAC) • Medium Access Control (MAC). • Notions of SDMA, FDMA, TDMA. • Pure random access protocols -- Aloha and related protocols. • CSMA-based protocols.	15	Dr.Wail Shawky Al-Kilani
4 Telecommunication systems • GSM: System architecture, protocols, Security • DECT: System architecture, protocols • UMTS and IMT 2000	12	Dr.Wail Shawky Al-Kilani
5 Wireless LAN • Infrared vs. radio transmission • Infrastructure and ad hoc networks • IEEE 802.11 • HIPERLAN • Bluetooth	12	Dr.Wail Shawky Al-Kilani
6 Mobile network layer • Mobile IP. • Dynamic host configuration protocols. • Ad hoc networks.	12	Dr.Wail Shawky Al-Kilani
7 Mobile transport layer • Traditional TCP 292. • Indirect TCP. • Snooping TCP. • Mobile TCP. • Fast transmit/fast recovery. • Transmission oriented TCP.	12	Dr.Wail Shawky Al-Kilani

Topics taught as a percentage of the content specified:

≥90 % [√]   **70-90 %** [   ]   **<70%** [   ]

2- Teaching and Learning Methods:

Lectures: [√]

Practical Training/ Laboratory: [√]

Seminar/Workshop: [   ]

Class Activity: [√]

Case Study:

Other Assignments/Homework: ☑

3- Student Assessment:

Method of Assessment	Percentage of total
Written examination	60
Oral examination	10
Mid-term exam	10
Practical/laboratory work	10
Other Assignments/class work	10
Total	100 %

Members of Examination Committee: Dr.Wail Shawky Al-Kilani
Mr. Ahmed Mahmoud
Mr. Anas AbdElaziz

Role of external evaluator: External evaluator not assigned yet.

4- Facilities and Teaching Materials:

Totally adequate ☐

Adequate to some extent ☑

Inadequate ☐

5- Administrative Constraints

- Small lectures hall.
- No. of demonstrators not sufficient for groups fellow up.
- Extra training hours for student is required.
- There are no enough specialists "Technicians" for periodical maintenance.
- Needing more funds for more devices needed by course co-ordinator.

6- Student Evaluation of the course: **Response of Course Team**

Need more time to execute their   Talking with administration to increase
exercises in lab.   time for staying students in lab.
Too difficult course contents   Contents' modification to be consider
Support needed in problems
occurring through over the projects

7- Comments from external   **Response of Course Team**
   evaluator(s):

External evaluator not assigned yet

8- Course Enhancement:
   Progress on actions identified in the previous year's action plan:
          This is the first year and no previous year's action plan.

Role of external evaluator:

External evaluator not assigned yet.

Course Coordinator: Dr.Wail Shawky Al-Kilani

Signature:

Date: