



# Annual Course Report

(MULTIMEDIA)

## A- Basic Information

- 1- Title and Code Multimedia / IT451  
2- Programme(s) on which this course is given CS and IT  
3- Academic year / Level of programme 4<sup>th</sup> year - 1<sup>st</sup> Semester  
4- Units/Weekly hours

Lecture  Tutorial/Practical  Total

## 5- Names of lecturers contributing to the delivery of the course

1- Dr. Kamel Morsy

Course co-ordinator Dr. Kamel Morsy

External evaluators: Not assigned yet

## B- Statistical Information

No. of students attending the course: No.  %

No. of students completing the course: No.  %

### Results:

Passed: No.  %  Failed: No.  %

### Grading of successful students:

Excellent: No.  %  Very Good: No.  %

Good : No.  %  Pass: No.  %

## C- Professional Information

### 1- Course Teaching

Topics actually taught	No of hours	Lecturer
<b>1 Introduction</b>	9	Dr. Kamel Morsy
<b>2 Digitization Principles</b> <ul style="list-style-type: none"> <li>• Analog Signals</li> <li>• Encoders and Decoders</li> <li>• Quantization</li> <li>• HTML Language</li> </ul>	12	Dr. Kamel Morsy
<b>3 Sound</b> <ul style="list-style-type: none"> <li>• The Nature of Sound</li> <li>• Digitizing Sound</li> <li>• Quantization</li> <li>• Dithering</li> <li>• Processing Sound</li> <li>• Noise Gate</li> <li>• Compression</li> <li>• Masking</li> <li>• MPEG Audio</li> <li>• MIDI Audio</li> <li>• Sound Waves</li> <li>• RIFF File Structure</li> <li>• Pulse Code Modulation</li> </ul>	18	Dr. Kamel Morsy
<b>4 Video</b> <ul style="list-style-type: none"> <li>• Human Perception of color.</li> <li>• NTSC and PAL Systems</li> <li>• Digital sampling</li> <li>• HDTV format</li> <li>• SIF format</li> <li>• Higher resolution of CIF</li> <li>• QCIF format</li> <li>• Moving pictures</li> <li>• Video Digitization</li> <li>• Video Artifacts</li> <li>• Video Compression</li> <li>• Preparing Video for Multimedia Delivery</li> <li>• Streamed Video &amp; Video Conference</li> </ul>	15	Dr. Kamel Morsy
<b>5 Multimedia Communication Basics</b> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Transmission Media</li> <li>• Sources of Signal Impairment</li> <li>• Asynchronous Transmission</li> <li>• Synchronous Transmission</li> <li>• Error Detection Method</li> <li>• Multimedia Editing Softwares</li> </ul>	21	Dr. Kamel Morsy

<b>6 Optical Communication Basics</b> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Optical Networks for Multimedia Applications</li> <li>• Types of optical fiber cables</li> <li>• Problems of Optical Networks</li> <li>• Laser compression</li> </ul>	3	Dr. Kamel Morsy
<b>7 Animation</b> <ul style="list-style-type: none"> <li>• Sequence of image files</li> <li>• Animated GIF</li> <li>• key frame animation</li> <li>• Motion graphics</li> <li>• 3-D animation</li> <li>• Hybrid Forms of Animation</li> <li>• Applications</li> </ul>	6	Dr. Kamel Morsy

**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	70
Oral examination	10
Practical/laboratory work	10
Other Assignments/class work	10
<b>Total</b>	<b>100 %</b>

**Members of Examination Committee**

Dr. Kamel Morsy  
 Ms. Nora Abdel-moez

**Role of external evaluator**

External evaluator not assigned yet

**4- Facilities and Teaching Materials:**

Totally adequate

Adequate to some extent

Inadequate

**5- Administrative Constraints**

All students attending the course must be taught data compression course before multimedia course.

**6- Student Evaluation of the course:**

Minimum background

**Response of Course Team**

Trying to add course pre request for multimedia as data compression

**7- Comments from external 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 action Plan.

**Course Coordinator: Dr. Kamel Morsy**

**Signature:**

**Date:**