Course Title: Computer
Course Code: ECE 001
Instructor: Dr. Islam ElShaarawy
Other References Virginia Tech CS Online Modules: http://courses.cs.vt.edu/csonline/
Other Resources:

- http://lightbot.com/
- http://scratch.mit.edu/
- http://flowgorithm.org/
- http://www.cburch.com/logisim/
- http://cyberpython.github.io/BMach/
- http://ccl.northwestern.edu/netlogo/index.shtml

Course Contents:

0. Introduction
1. Data Representation
   a) Data Storage (online)
   b) Logic Gates (online)
   c) Logic Circuits (online)
   d) Number Systems (online)
2. Computer Architecture (online)
3. Operating Systems (online)
4. Networking and the Internet
5. Algorithms (online)
6. Computer Programming (online)
7. Artificial Intelligence (online)

Attendance Policy:

1. Attendance is expected.
2. Whether you attend or not, you are responsible for keeping track of whatever happens during the lectures and the tutorials.
3. Side talking, cellphones, laptops, food/drinks, and walking’ are not allowed.

Grading System:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance(^3)</td>
<td>00</td>
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<tr>
<td>Quizzes</td>
<td>05</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>10</td>
</tr>
<tr>
<td>Oral Exam</td>
<td>15</td>
</tr>
<tr>
<td>Final Exam</td>
<td>45</td>
</tr>
</tbody>
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\(^1\) You can use a different edition if you already have one.
\(^2\) If you are late for the lecture, then you are allowed to walk into the lecture hall but quietly.
\(^3\) Attendance will be taken anyway.