Syllabus for
swe510 Data Structures and Algorithms
(3+0+0) 3 ECTS 8
2016 Fall

Catalog Definition

Specification, usage and implementation and analysis of advanced data structures and algorithms. Hashing, heap structures, advanced sorting techniques, graphs and algorithm design techniques.

Web Site


General Information

Instructor: Haluk O. Bingol, bingol@boun.edu.tr
TA: none
Student TA: none
Course Schedule: WWW 111213 @ BM A5, BM A5, BM A5,
PS Schedule: none

Grading

Contribution 10 
Midterm 1 25 
Midterm 2 30 
Final 35 
Presentations as bonus
Exams are on computer using teaching.codes..

Text Book

- Algorithms 4e, Sedgewick and Wayne, Addison-Wesley 2011

Reference Books

none
# Weekly Program (Tentative)

<table>
<thead>
<tr>
<th>Week</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>Eclipse, Java</td>
</tr>
<tr>
<td>3-4</td>
<td>Hashing</td>
</tr>
<tr>
<td>5-6</td>
<td>Heap</td>
</tr>
<tr>
<td>7</td>
<td>mt1</td>
</tr>
<tr>
<td>8-9</td>
<td>Sorting</td>
</tr>
<tr>
<td>10</td>
<td>mt2</td>
</tr>
<tr>
<td>11-12</td>
<td>Graphs</td>
</tr>
</tbody>
</table>