Yeditepe University  
Department of Computer Engineering

CSE252  
Principles of Programming Languages  
(Fall 2011)

Instructor  
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Lec. Schedule  
Tue 9:00-11:00 (B-444)
Lab Schedule  
Tue 11:00-12:30 (B-411)
Office Hours  
Tue 14:00-16:50
Teaching Assistant  
Mr. Kemal Çağrı Serdaroğlu, B-420, x1428 (Office Hours: TBA)
Course Web Page  
http://cse.yeditepe.edu.tr/~kserdaroglu/fall2011/cse252

COURSE DESCRIPTION  
Study of programming languages, language design issues, language translation issues, data types, abstraction, type checking, names, bindings, scopes, sequence control, subprogram control, object oriented programming, exception handling, paradigms and languages (Fortran, Pascal, Ada, C, C++, Java, Common LISP, ML and Prolog, Perl, Scripting Languages).

PREREQUISITE:  
CSE 112 – Computer Programming Practices or CSE 114 – Fundamentals of Computer Programming

TEXTBOOK and REFERENCES  
• Robert W. Sebesta, Concepts of Programming Languages, 9th Edition (Textbook)
• T.W. Pratt and M.V. Zelkowitz, Programming Languages, Design and Implementation, Fourth Edition

GRADING PLAN  
• You will be given 4-6 assignments/quizzes, lab works (6-8 homework and lab quizzes), a term project, a midterm and a final exam. Grade distribution is as follows:
  • Lab Work 10% (70% of the Lab assignments must be submitted, otherwise it will cost a letter grade from the final letter grade)
  • Assignments/Quizzes 10% (70% of the theoretical assignments must be submitted, otherwise it will cost a letter grade from the final letter grade)
  • Final Project, 10% (if not submitted, it will cost a letter grade from the final letter grade)
  • Midterm Exam 30% (1st of November 2011, in-class exam)
  • Final Exam, 40% (Exam date will be determined and announced by the Faculty)

NOTES  
• Attendance will be taken regularly. You must attend to 80% of the lectures and labs.
• You must also attempt all the assignments and the lab work in addition to the midterm and the final exam to complete the course requirements. Otherwise, you may fail regardless of your exam scores (see Grading Plan).
• Assignments and lab work must be submitted on due dates. No late assignment and lab work submissions will be accepted.
• Your programs will be graded according to their correctness, algorithm design, readability, documentation, and presentation.
• Proper ethics (see the attached document) is expected in the course.

COURSE SCHEDULE

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<th>Week</th>
<th>Date</th>
<th>Topics</th>
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<td>1</td>
<td>Sep 13</td>
<td>Introduction</td>
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<tr>
<td>2</td>
<td>Sep 20</td>
<td>Language Design Issues, Impact of Machine Architecture</td>
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<td>3</td>
<td>Sep 27</td>
<td>Lexical Analysis (FSA, RE and RG)</td>
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<td>4</td>
<td>Oct 4</td>
<td>Syntax Analysis (BNF/CFG, Parse Trees)</td>
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<td>5</td>
<td>Oct 11</td>
<td>Semantic Analysis (Attribute Grammars)</td>
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<td>6</td>
<td>Oct 18</td>
<td>Names, Binding, Type Checking, Scopes , Data Types</td>
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<td>7</td>
<td>Oct 25</td>
<td>Heap Management, Expressions and Assignment Statements</td>
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<td>8</td>
<td>Nov 1</td>
<td>MIDTERM EXAM</td>
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<td>9</td>
<td>Nov 8</td>
<td>BREAK</td>
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<td>10</td>
<td>Nov 15</td>
<td>BREAK</td>
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<td>11</td>
<td>Nov 22</td>
<td>Statement-Level Control Str., Parameter Passing Methods</td>
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<td>12</td>
<td>Nov 29</td>
<td>Implementing Subprograms</td>
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<td>13</td>
<td>Dec 6</td>
<td>Abstract Data Types and Encapsulation Constructs</td>
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<td>14</td>
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<td>Support for OOP</td>
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<td>Dec 20</td>
<td>Exception &amp; Event Handling,</td>
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