

<b>PROFESSOR'S NAME</b>	Dr. Y N Srikant
<b>DEPARTMENT</b>	Computer Science and Automation
<b>INSTITUTE</b>	IISc Bangalore
<b>COURSE OUTLINE</b>	<p>This course aims to teach students the principles involved in compiler design. It will cover all the basic components of a compiler but not the advanced material on optimizations and machine code generation. The treatment will be at the level of a graduate course.</p> <p><b>Course Outline</b></p> <ol style="list-style-type: none"><li>1. An overview of a compiler</li><li>2. Lexical Analysis</li><li>3. Syntax Analysis</li><li>4. Semantic Analysis</li><li>5. Intermediate Code Generation</li><li>6. Run-Time Environments</li><li>7. Local Optimizations</li><li>8. Machine Code Generation</li><li>9. Global Register Allocation</li><li>10. Machine-independent Optimization</li><li>11. Instruction Scheduling and Software Pipelining</li><li>12. Automatic Parallelization</li></ol>