## Course Syllabus

**Instructor:** Dr. S. Kant Vajpayee  
**Office:** TEC 247  
**Phone:** 266-4727  
**Office Hours:** MW 3:15-5:00 pm  
**Textbook:** Design of Mechanical and Electrical Systems in Buildings, Trost & Choudhury, Pearson Prentice-Hall, 2004

**Prerequisites:** AEC 132/L

**Objective:** To learn and understand efficient building design in terms of electrical installations and lighting. At the end of the course you may be able to design, size, and detail different electrical sub-assembly installations; to select fixtures and components; and to integrate the sub-systems with the building, structure, and finishes.

**Clientele:** The course is mandatory for majors of architectural engineering technology and construction engineering technology. Those majoring in other engineering technologies and physical sciences may also find it useful, especially if planning engineering-related careers. Architects, constructors, managers, occupants, and owners of buildings may also benefit. If in doubt about its suitability for you, discuss with your academic advisor or the instructor.

### Schedule and Grading

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Chapters^1 (pages)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8/20</td>
<td>Introduction</td>
</tr>
<tr>
<td>2</td>
<td>8/25,27</td>
<td>8 (112-118)</td>
</tr>
<tr>
<td>3</td>
<td>9/3</td>
<td>9 (119-126); No Class on 9/1</td>
</tr>
<tr>
<td>4</td>
<td>9/8,10</td>
<td>10 (127-140)</td>
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<tr>
<td>5</td>
<td>9/15,17</td>
<td>11 (141-150)</td>
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<tr>
<td>6</td>
<td>9/22,24</td>
<td>12 (151-166)</td>
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<tr>
<td>7</td>
<td>9/29,10/1</td>
<td>12 (167-181)</td>
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<tr>
<td>8</td>
<td>10/6,8</td>
<td>13 (182-188)</td>
</tr>
<tr>
<td>9</td>
<td>10/13,15</td>
<td>1 (3-11)</td>
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</tbody>
</table>

^1Thoroughly study the chapter material and fully understand the concepts and the text examples.

AEC 316, Fall 2014

K. Vajpayee
More than ten tests--each worth 10 points--will be given. You may also do (optional) a term paper worth 10 points. The best ten scores will determine the letter grade (a comprehensive final may be used to replace the lowest of the best ten). The letter grade is based on:

\[
\begin{align*}
A & \geq 90 \\
B & \geq 80 \\
C & \geq 70 \\
D & \geq 60 \\
F & < 60 \\
\end{align*}
\]

...continued overleaf...

**CLASS POLICY AND OTHER REQUIREMENTS IN AEC 316**

**PURPOSE OF THE LECTURES:** The purpose of the lecture is to supplement, correlate, and illuminate the learning of students through individual study. Students are expected to study the textbook, digest any sample problems, and practice chapter-end exercises if there. A concentrated self-study is expected. The learning in the classroom can be enhanced by reading the scheduled coverage prior to the lecture. Remember that the burden of learning is always on the student--the instructor's role is merely that of a facilitator.

**ATTENDANCE:** Based on the assumption that a college student is mature enough to be responsible, no attendance will be taken; you should attend all meetings for your own benefit. While this sounds like "the good news," the bad news is that you will be responsible for any lost work, including any handouts. Moreover, regular attendance resulting in no missed tests will help you improve your grade by discarding the worst score.

**CHANGES IN CLASS SCHEDULE:** Normally the schedule outlined in this handout will be adhered to. However, if a change is made for accentuating reasons, it is your responsibility to find about it--one reason why regular attendance in the class is desirable.

**TESTS:** For tests involving numerical problems, you will be allowed to use the textbook provided it has no marking/writing other than the printed material. True/false or multiple-choice tests will be closed book/notes. No makeup tests are given for any reason whatsoever. The comprehensive final may be true/false or multiple-choice type.

**PRACTICE MAKES PERFECT:** Practice solving/answering the chapter-end questions. It helps a lot if you have fully comprehended the concepts and the examples presented in the text.

**CONDUCT:** Higher education is not inexpensive any more. You pay a hefty fee for education, toward which lectures contribute critically. It is logical to expect a behavior that helps maintain classroom environment conducive to learning--both yours and others in the class. My response to misbehavior may vary from a reprimand to expulsion from the course.

**ADA POLICY:** If a student has a disability that qualifies under the American with Disabilities Act (ADA) and requires accommodations, he/she should contact the Office for Disability Accommodations (ODA) for information on appropriate policies and procedures. Disabilities covered by ADA may include learning.
psychiatric, physical disabilities, or chronic health disorders. Students can contact ODA (address below) if they are not certain whether a medical condition/disability qualifies.

The University of Southern Mississippi
Office for Disability Accommodations
118 College Drive # 8586
Hattiesburg, MS 39406-0001

Voice Telephone:  (601) 266-5024 or (228) 214-3232
Fax:  (601) 266-6035

Individuals with hearing impairments can contact ODA using the Mississippi Relay Service at 1-800-582-2233 (TTY) or email Suzy Hebert at Suzanne.Hebert@usm.edu.