<table>
<thead>
<tr>
<th>称</th>
<th>電機概論</th>
</tr>
</thead>
<tbody>
<tr>
<td>学分数</td>
<td>3</td>
</tr>
<tr>
<td>開課學期</td>
<td>100 學年度第二學期</td>
</tr>
<tr>
<td>教學目標</td>
<td>This course provides students the fundamental expertise of electric machinery, toward their future career of professional electrical engineer.</td>
</tr>
</tbody>
</table>
| 教學大綱 | 1. General background  
2. Magnetic circuits  
3. DC machinery fundamentals  
4. DC generators and DC motors  
5. AC circuit fundamentals  
6. Transformers and 3-phase circuits  
7. Synchronous generator and motors  
8. Induction motors |
Reference Book:  
1. “Electric Machinery”, By Peter F. Ryff.  
3. “Electric Machinery and Transformers”, By I. L. Kosow |
| 講授方式 | 講義 |
| 成績考評 | Mid. Exam-1 : 25%~30%  
Mid. Exam-2 : 25%~30%  
Final Exam : 25%~30%  
Quiz : 15%~25%  
Bonus : TBD |
| 備註     |                  |