ELECTROMAGNETICS II
PHYS 4342 CRN 21510 SPRING 2023
Instructor: Dr. Hari Nair (hnair@utep.edu) PSCI 223 C, Ph: 7544
Office hours: by appointment

Scheduled Meeting Times

<table>
<thead>
<tr>
<th>Type</th>
<th>Time</th>
<th>Days</th>
<th>Where</th>
<th>Date Range</th>
<th>Schedule Type</th>
<th>Instructors</th>
<th>Description Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>10:30 am -</td>
<td>TR</td>
<td>Health Science/School of</td>
<td>Jan 17, 2023</td>
<td>Lecture</td>
<td>Harikrishnan</td>
<td>Electromagnetics II</td>
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<tr>
<td></td>
<td>11:50 am</td>
<td></td>
<td>NURS 213</td>
<td>May 04, 2023</td>
<td>(LECT)</td>
<td>Nair</td>
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MIDTERM EXAM: MARCH 15th
FINAL EXAM: MAY 9th, 1:00 pm - 3:45 pm

The textbook prescribed for this course is Introduction to Electrodynamics 3rd or 4th ed by David J. Griffiths (DJG. PHYS 4342 is the second part of a sequence of advanced undergraduate physics courses at the junior or senior level for advanced concepts in electromagnetism. Electromagnetics I (PHYS 4341) is a prerequisite. The objective of the course is to provide an in-depth understanding of the following chapters from the prescribed textbook: 1) Review of important concepts of PHYS 4341 (optional), 2) Ch 7 Electrodynamics, 3) Ch 8 Conservation laws, 4) Ch 9 Electromagnetic waves, 5) Ch 10 Potential and fields, 6) Ch 11 Radiation, 7) Ch 12 Electrodynamics and relativity

Grading policy: Total score (100%) = Midterm exam (30%) + Final exam (40%) + in-class performance, quizzes, and homework assignments (30%). The final exam will be comprehensive of all chapters covered in class lectures. Letter grades are assigned as follows: score > 90% = A, 89-80% = B, 79-60% = C, 59-50% = D, < 49% = F.

If you have a disability, please contact Center for Accommodations and Support Services (CASS) ph: 747-5148, email: cass@utep.edu. Office: Union East Building, Room 106. If you are a military student with the potential of being called to military service and/or training during the semester, you are encouraged to contact the instructor at the beginning of the semester.

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