### Core Courses

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPE 540</td>
<td>Telecommunication Systems</td>
<td>3</td>
</tr>
<tr>
<td>CPE 541</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>CPE 543</td>
<td>Wireless Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>CPE 551</td>
<td>Digital Signal Processing</td>
<td>3</td>
</tr>
</tbody>
</table>

### Elective Courses

- CPE 500 Software Engineering (3 Hours)
- CPE 502 Telecommunication Software Design (3 Hours)
- CPE 520 Advanced Engineering Analysis I (3 Hours)
- CPE 521 Advanced Engineering Analysis II (3 Hours)
- CPE 534 Coding Theory (3 Hours)
- CPE 542 Computer and Network Security (3 Hours)
- CPE 545 Antennas (3 Hours)
- CPE 546 Digital Communication Systems (3 Hours)
- CPE 643 Wireless Networks (3 Hours)
- CPE 644 Optical Communication Systems (3 Hours)
- CPE 645 Microwave Circuits and Systems (3 Hours)
- CPE 646 Global Positioning Systems and Location Services (3 Hours)
- CPE 647 Mobile Computing Systems (3 Hours)
- CPE 648 Wireless Sensor Networks (3 Hours)
- CPE 649 Telecommunications Network Management (3 Hours)
- CPE 670 Wireless Design Laboratory (3 Hours)
- CPE 671 3G and 4G Wireless Networks (3 Hours)
- CPE 672 Network Quality Assurance and Simulation (3 Hours)
- CPE 673 Wireless Internet Application Development (3 Hours)
- CPE 693 Advanced Topics in Engineering (Variable 1 to 4 Hours)
- CPE 695 Scientific Writing Seminar (1 Hour)
- CPE 696 Seminar (1 Hour)
- CPE 697 Internship (Variable 1-3 Hours)
- CPE 698 Independent Study (Variable 1-4 hours)
- CPE 699 Thesis Research (Variable 1-6 Hours)