### Instructor with Comments Report

**Instructor:** Deotare, Parag Bhaskar  
**Course:** EECS 434 001  
**Date:** 2016-12-01 - 2016-12-14  
**Report ID:** MSR04734  
**University of Michigan**  
**Office of the Registrar - Evaluations**

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**Written Comments**

900 Comment on the quality of instruction in this course.

**Date Printed:** 12/19/2016 10:06:42 AM  
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**Responses from your Students**

<table>
<thead>
<tr>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0</th>
<th><strong>Your Median</strong></th>
<th><strong>University Wide</strong></th>
<th><strong>School/College</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SA</td>
<td>A</td>
<td>N</td>
<td>D</td>
<td>SD</td>
<td>NA</td>
<td>75% Above</td>
<td>50% Above</td>
<td>25% Above</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>----------</td>
<td>----------</td>
<td>----------</td>
</tr>
<tr>
<td>4</td>
<td>I had a strong desire to take this course.</td>
<td>10</td>
<td>6</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.60</td>
</tr>
<tr>
<td>891</td>
<td>As compared with other courses of equal credit, the workload for this course was (SA=Much Lighter, A=Lighter, N=Typical, D=Heavier, SD=Much Heavier).</td>
<td>1</td>
<td>5</td>
<td>7</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>3.07</td>
</tr>
<tr>
<td>1631</td>
<td>This course advanced my understanding of the subject matter.</td>
<td>12</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.75</td>
</tr>
<tr>
<td>1632</td>
<td>My interest in the subject has increased because of this course.</td>
<td>9</td>
<td>9</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.50</td>
</tr>
<tr>
<td>1633</td>
<td>I knew what was expected of me in this course. (SA=Almost Always, A=Frequently, N=Sometimes, D=Occasionally, SD=Hardly Ever).</td>
<td>10</td>
<td>6</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.60</td>
</tr>
<tr>
<td>230</td>
<td>The instructor seemed well prepared for class meetings. (SA=Almost Always, A=Frequently, N=Sometimes, D=Occasionally, SD=Hardly Ever)</td>
<td>16</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.94</td>
</tr>
<tr>
<td>199</td>
<td>The instructor explained material clearly. (SA=Almost Always, A=Frequently, N=Sometimes, D=Occasionally, SD=Hardly Ever)</td>
<td>10</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.60</td>
</tr>
<tr>
<td>217</td>
<td>The instructor treated students with respect.</td>
<td>14</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.86</td>
</tr>
<tr>
<td>1</td>
<td>Overall, this was an excellent course.</td>
<td>10</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.60</td>
</tr>
<tr>
<td>2</td>
<td>Overall, the instructor was an excellent teacher.</td>
<td>14</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.86</td>
</tr>
<tr>
<td>3</td>
<td>I learned a great deal from this course.</td>
<td>11</td>
<td>6</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.68</td>
</tr>
<tr>
<td>14</td>
<td>The prerequisite science course was adequate preparation for this course.</td>
<td>6</td>
<td>8</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>4.13</td>
</tr>
<tr>
<td>15</td>
<td>I increased my ability to apply math and science knowledge to engineering problems.</td>
<td>8</td>
<td>9</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>4.39</td>
</tr>
<tr>
<td>32</td>
<td>This course increased my desire to learn more about the subject in the future.</td>
<td>9</td>
<td>9</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.50</td>
</tr>
<tr>
<td>34</td>
<td>I have a greater understanding of how course concepts apply to contemporary problems.</td>
<td>9</td>
<td>9</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.50</td>
</tr>
<tr>
<td>35</td>
<td>I increased my ability to apply engineering tools and methods.</td>
<td>9</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.56</td>
</tr>
<tr>
<td>61</td>
<td>Prerequisites provided adequate preparation for this course.</td>
<td>6</td>
<td>11</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>4.23</td>
</tr>
<tr>
<td>121</td>
<td>I gained a good understanding of concepts/principles in this field.</td>
<td>8</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.40</td>
</tr>
<tr>
<td>374</td>
<td>I developed confidence in my ability to work in the subject area of this course.</td>
<td>7</td>
<td>9</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.28</td>
</tr>
<tr>
<td>183</td>
<td>The instructor used examples that had relevance for me.</td>
<td>11</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>4.68</td>
</tr>
<tr>
<td>190</td>
<td>The instructor accommodated students with various learning needs.</td>
<td>14</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>4.89</td>
</tr>
<tr>
<td>198</td>
<td>I was very satisfied with the educational experience this instructor provided.</td>
<td>13</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.85</td>
</tr>
<tr>
<td>201</td>
<td>The instructor gave clear explanations.</td>
<td>14</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.86</td>
</tr>
<tr>
<td>212</td>
<td>The instructor taught near the class level.</td>
<td>9</td>
<td>7</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.50</td>
</tr>
<tr>
<td>216</td>
<td>The instructor acknowledged all questions insofar as possible.</td>
<td>12</td>
<td>5</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.75</td>
</tr>
<tr>
<td>229</td>
<td>The instructor used class time well.</td>
<td>14</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.86</td>
</tr>
<tr>
<td>232</td>
<td>Work requirements and grading system were clear from the beginning.</td>
<td>10</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.60</td>
</tr>
<tr>
<td>239</td>
<td>The amount of work required was appropriate for the credit received.</td>
<td>8</td>
<td>9</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.39</td>
</tr>
<tr>
<td>240</td>
<td>The amount of material covered in the course was reasonable.</td>
<td>8</td>
<td>9</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>4.39</td>
</tr>
<tr>
<td>340</td>
<td>The textbook made a valuable contribution to the course.</td>
<td>4</td>
<td>7</td>
<td>4</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>3.79</td>
</tr>
</tbody>
</table>
Student 1
NA

Student 2
Parag did an excellent job teaching this course. His expectations for students are high, but he holds himself to an equally high standard in terms of preparation and effort in making sure that each student can succeed. Even though it was a difficult class, Parag is certainly one of the best professors I've had during my time at Michigan.

Student 3
NA

Student 4
The quality of instruction in this course improved more and more as the semester progressed. Professor Parag really put the effort to know what he could improve on and what he needed to do so that the class understood the subject. He always put his students first and willing to help out at all times. Concepts were tough, but the professor is very helpful and mindful that certain things are not as easy to comprehend, but also expects the students to put in the effort.

Student 5
You are the BEST instructor!!!
So nice and very gentle.

Student 6
Parag was a fantastic professor. He really cares about his students and does his best to make sure that they understand what is going on in the class.

Student 7
Professor Deotare is very willing to help us learn. He will meet outside of office hours of needed. He will not give you answers directly, but he makes sure that we understand the work. He is also very personable and willing to adapt for the class' needs.

Student 8
After the first set of course evaluations and learning what pace worked best for the class, I found that the quality of instruction was really great! The learning curve for Lumerical was really big and took a lot longer than I think the professor expected, however, towards the end of the class, especially during the project, I found that I had a good understanding of the program and was able to use it in a much better manner.

Student 9
Awesome!

Student 10
Professor Deotare gives very intuitive explanations to highly complex concepts and emphasizes the importance of having a deeper level of understanding than just solving problems out of the back of the book. He actively involves students and keeps lectures very dynamic. In between topics in the course, he gives lectures purely on applications, which is extremely helpful for keeping things in perspective. He is clearly passionate about the subject and even makes himself available to help students outside of office hours. He is a great professor and a great person.

Student 11
Good, he relates theory to applications in a decent and intuitive way.

Student 12
NA

Student 13
Professor Parag is the GOAT (Greatest of all time). He was an excellent professor. truly cares for his students. It was a pleasure taking a class with him.
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EECS 434 001

Student 14
NA

Student 15
NA

Student 16
Learned a lot, and overall a great course + professor

Student 17
NA

Student 18
Much better the second half of the semester. The speed of instruction slower which helped me comprehend the material better.

Written Comments

911 Please comment on the quality of the course as a whole.

Student 1
The reading assignments were given through different books, and the lecture notes were from different books, which created confusion some times.

Student 2
NA

Student 3
NA

Student 4
The quality of the course as a whole was great. Professor was always well prepared for class. Made sure that the students were understanding concepts by making use of "summary sheets" where you write what you know before the lecture and what you learned and still have questions about after every lecture. Then something that no other professor has done in the past is that he will clarify anything that was unclear to that specific student after class or via email offline.

Student 5
I think the number of topics is too much.
Lab tour is great!!

Student 6
The course itself was interesting. The way that Parag taught the course made me increase my interest in the subject. I really enjoyed this course.

Student 7
The second half of the semester I thought was more interesting, which included lasers and waveguides. The first half was too many proofs

Student 8
Really great course! It may be a little too much information for one class. Sometimes topics may feel a little rushed.

Student 9
NA
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EECS 434 001

Student 10
NA

Student 11
Good course for photonics fundamentals.

Student 12
NA

Student 13
Great course, taught really well. Too fast at times and a lot of concepts covered so it gets very theory heavy or overwhelming

Student 14
NA

Student 15
NA

Student 16
Very good.

Student 17
NA

Student 18
I don't know if it would be possible, but a lab component could be helpful to see how these things are applicable. I also wish the discussion wasn't right after lecture.

Written Comments
931 Please give any other comments on this course as a whole.

Student 1
Professor was very enthusiastic about the subject and he was able build the confidence about the subject.

Student 2
NA

Student 3
NA

Student 4
The book was very helpful to learn and expand on several topics and really nice as well. There was not a need for a graduate student instructor or anything like that. The professor did a great job in doing all of that on his own. Also, liked that fact that the class was small and got to know the professor and all of the other students in the class. There was a project that counted as the second examination that I feel had more of a learning experience that an exam. Last, we went as a class to play laser tag. Overall, very interesting and fun class. Feel that it will only get better with Professor Parag since he is always looking for ways to improve, something I really admire.

Student 5
Instructor: Deotare, Parag Bhaskar  
EECS 434 001

Some lectures, you went very fast. The notations are different from the text book and it's very hard to follow and compare. Please use more time when you provide the example in the class. Sometimes I can only write down but don't understand the concept of the example.

Student 6
I really liked how Parag made us fill out the summary sheets. It made it very easy to retain knowledge on what we learned in class. Parag would also send us individual messages on topics that we didn't understand, which was really cool to see.

Student 7  
NA

Student 8  
NA

Student 9  
NA

Student 10  
NA

Student 11  
NA

Student 12  
NA

Student 13  
Good course. would recommend

Student 14  
The topics covered within EECS434 is extensive. Although it is reasonable to learn many aspects of optics superficially, I believe there is just not enough time for the instructor to cover all the materials in detail in order to fully understand the material fully. Therefore, I recommend reducing some of the topic covered in this course, and increase the depth of each topics instead (i.e. lasers requires more time to understand)

Student 15  
NA

Student 16  
NA

Student 17  
NA

Student 18  
Parag definitely took the comments that were given during the first round of evaluations which is very much appreciated and not somethings that professors often do.

Written Comments

1098 Among the courses you have already taken, which proved the most (or least) effective in preparing you for this course, and why?
Instructor: Deotare, Parag Bhaskar
EECS 434 001

Student 1
NA

Student 2
EECS 230, 334, and 320 all played a key role in preparing me for this course.

Student 3
NA

Student 4
I believe that Electromagnetics I and II were the most useful in this course as well as Introduction to Semiconductors in the second half of the course.

Student 5
NA

Student 6
Optics proved very effective in preparing me for the course, because the subject matter is very similar to that of photonics.

Student 7
EECS 334 and EECS 230

Student 8
NA

Student 9
NA

Student 10
EECS 330 and 430, and to a lesser extent, EECS 320 and 334 were very useful to have taken.

Student 11
No other courses taken in photonics so far.

Student 12
NA

Student 13
EECS 334. EECS 230 should be a pre-req for this course!

Student 14
NA

Student 15
NA

Student 16
EECS 334
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Student 17
NA

Student 18
EECS 230 and 330 should be required prerequisites for this class. There was material taught there that was required.

* The quartiles are calculated from Fall 2016 data. The university-wide quartiles are based on all UM classes in which an item was used. The school/college quartiles in this report are based on upper division classes with an enrollment of 16 to 74 students in College of Engineering.

** SA - Strongly Agree, A - Agree, N - Neutral, D - Disagree, SD - Strongly Disagree, NA - Not Applicable.