

# Distribution Report for Fall 2009, OPT 253 QUANTUM OPTICS LABORATORY Section 72702

Instructor: LUKISHOVA, SVETLANA (Primary)

|    | Question Text   | N | Top Two | Avg | Major       | Elective     | Other   | Uncertain   |             |           |       |
|----|---|---|---------|-----|-------------|--------------|---------|-------------|-------------|-----------|-------|
| 1  | Status of course  | 4 |         |     | 100%        | 0%           | 0%      | 0%          |             |           |       |
|    |   |   |         |     | Fresh       | Soph         | Junior  | Senior      | Graduate    | No Matric | Other |
| 2  | Class year  | 4 |         |     | 0%          | 0%           | 0%      | 75%         | 25%         | 0%        | 0%    |
|    |   |   |         |     | Ful engaged | Most Engaged | Average | Par Engaged | Min Engaged |           |       |
| 3  | Involvement   | 4 | 100%    | 5   | 100%        | 0%           | 0%      | 0%          | 0%          |           |       |
|    |   |   |         |     | G Increase  | Increase     | Ave     | Min inc     | Not inc     |           |       |
| 4  | Student increase knowledge  | 4 | 100%    | 5   | 100%        | 0%           | 0%      | 0%          | 0%          |           |       |
|    |   |   |         |     | Profess     |              | OK      |             | Not Profess |           |       |
| 6  | Rate yourself in course   | 4 | 100%    | 5   | 100%        | 0%           | 0%      | 0%          | 0%          |           |       |
|    |   |   |         |     | Extr Well   | V Well       | Well    | N Well      | N/A         |           |       |
| 8  | Syllabus describe course content  | 4 | 100%    | 4.8 | 75%         | 25%          | 0%      | 0%          | 0%          |           |       |
|    |   |   |         |     | VI          | SI           | NI      | NA          |             |           |       |
| 10 | Readings were important in my learning of the course                            | 4 | 100%    | 5   | 100%        | 0%           | 0%      | 0%          |             |           |       |
|    |   |   |         |     | Extr Well   | V Well       | Well    | N Well      | N/A         |           |       |
| 12 | Did assignments and exams support objectives                                    | 4 | 100%    | 4.8 | 75%         | 25%          | 0%      | 0%          | 0%          |           |       |
|    |   |   |         |     | Excellent   | V Good       | Ave     | NV Good     | VP          |           |       |
| 16 | Overall course rating   | 4 | 100%    | 5   | 100%        | 0%           | 0%      | 0%          | 0%          |           |       |
|    |   |   |         |     | VRespon     | MRespon      | Aver    | MRespon     | URespon     |           |       |
| 18 | Responsiveness (LUKISHOVA)  | 4 | 100%    | 5   | 100%        | 0%           | 0%      | 0%          | 0%          |           |       |
|    |   |   |         |     | VEffect     | Effect       | Aver    | Min Effect  | Ineffect    |           |       |
| 20 | Effectiveness (LUKISHOVA)   | 4 | 100%    | 5   | 100%        | 0%           | 0%      | 0%          | 0%          |           |       |
|    |   |   |         |     | Str Agree   | SW Agree     | Neutral | SW Dis      | Str Dis     |           |       |
| 22 | Have a stronger interest in this subject because of this instructor (LUKISHOVA) | 4 | 100%    | 4.8 | 75%         | 25%          | 0%      | 0%          | 0%          |           |       |
|    |   |   |         |     | Excellent   |              |         |             | Poor        |           |       |
| 26 | Overall instructor rating (LUKISHOVA)   | 4 | 100%    | 5   | 100%        | 0%           | 0%      | 0%          | 0%          |           |       |

# Comments Report for Fall 2009, OPT 253 QUANTUM OPTICS LABORATORY Section 72702

Instructor: LUKISHOVA, SVETLANA (Primary)

| Instructor | Avg eval score | Text Responses  |
|------------|----------------|---|
|            |                | <b>Question: Comments:</b>  |
|            | > 75%          | The concepts in this course were difficult to understand. A lot of research was done during my lab report write ups.  |
|            | > 75%          | I worked hard with this course. Before the lab, I read the manual. In the experiment, I carefully recorded each steps, and discussed with the Professor and classmates, and quite involved in the lab. After the lab, I took the lab report carefully.  |
|            |                | <b>Question: Comments:</b>  |
|            | > 75%          | I walked into the course with no knowledge of Quantum Optics whatsoever. Now that this is   |
|            | > 75%          | I have no previous knowledge of quantum mechanics, I learned a lot from this course, and I believe it will help me next semester when I take quantum optics.  |
|            | > 75%          | Quantum Optics is new area for me. I learned the theory of Quantum Mechanics before. While, this Quantum Optics Lab gives me direct experiences of quantum. We can make quantum photons with our own hands, and can observe their quantum characters. We also work with some advanced instruments.  |
|            |                | <b>Question: Comments:</b>  |
|            | > 75%          | Doctor was able to tell us clearly what the point of everything we were doing was, whether it be in the manual, syllabus or discussions.  |
|            | > 75%          | N/A   |
|            | > 75%          | Very good.  |
|            |                | <b>Question: Comments:</b>  |
|            | > 75%          | To know and understand the lab manuals was imperative to understanding what had to be done during each lab session and a proper right-up!   |
|            | > 75%          | The readings provided in the course, like the lab manual was crucial to performing well in the lab.   |
|            | > 75%          | In this course, the most important is taking part in the experiment. And for me, the second important is reading. To understand the thoery, and to know how to do the experiment, I need to read papers and manuals. It is very important and I learned a lots in reading.  |
|            |                | <b>Question: Comments:</b>  |
|            | > 75%          | Any extra reading pertained exactly to what we were trying to accomplish in the labs. And they were very informative and interesting!   |
|            | > 75%          | There were lab reports, an essay, a presentation, a midterm, and a final. They all supported the course objectives.   |
|            | > 75%          | The assignments and exams are mostly about the experiment process and theory. So as long as you take part in the experiments and undertand every steps and results, the assigenments and exams are not very difficult.  |
|            |                | <b>Question: Comments:</b>  |
|            | > 75%          | Starting from scratch and working all the way up to a full understanding is exactly what any class should do. <b>This was by far the best class that has ever actually been just that: a class - a learning experience to gain knowledge and better ones education and understanding.</b> This may have even benefited more since it was a lab course. I feel like I learned more "material" working in the lab every day than I have in lectures and homeworks with other classes. I can't write enough of a glowing review. |
|            | > 75%          | <b>Very beneficial course. Working with a very smart instructor who knows her quantum.</b> Worked with equipment that many people have the chance to work with.   |
|            | > 75%          | I think it worths the time and efforts.   |
|            |                | <b>Question: What are the major strengths of this course?</b>   |

|           |       |  |
|-----------|-------|--|
|           | > 75% | Working with cutting edge material, doing true research as an undergraduate, learning lab protocol. I believe that my write-ups for future anything will be greatly improved after having gone through this course.  |
|           | > 75% | State of the art equipment, caring and very knowledgeable professor.   |
|           | > 75% | It gives us the first-hand experiences of quantum optics.  |
|           |       | <b>Question: What are the major weaknesses of this course? Please make suggestions for improvement.</b>  |
|           | > 75% | I feel like it needs to get bigger! While the small group was fantastic, I wish that more people would become involved so that it gains the momentum and attention it deserves!  |
|           | > 75% | Big groups is definitely a negative in the lab. I understand the professor had to be with us in the lab most of the time because of the research equipment, but without here presence, the TA made a very good job ensuring the students' and equipments' safety. Smaller groups would definitely help, more hands on time for each person. There 5 students in this course and we all did the same presentation, with the same experimental data. In the future, I believe it could be more beneficial if each student focuses on one lab, or make the presentations in Groups. Lastly, Assign the essay earlier in the semester. Last week of the semester just for this class, there was a final, presentation, essay, and lab 3 and 4 due. |
|           |       | <b>Question: Comments:</b>   |
| LUKISHOVA | > 75% | There was never a time when she was unable to answer a question or approach it in a way that would make sense. Her labs were built so that we learned as we went, and when we fully understood how to handle the experiment, we were able to do it practically all by ourselves. In other words: we were taught, we learned it, and we excelled. Doctor Lukishova had an extreme impact on that happening.   |
| LUKISHOVA | > 75% | Professor Lukishova took part in all the experiments with students. First, she would ask how much do we know about the exam, and then she show us how to do, and let us do it ourselves one by one. Every students are encouraged to do the experiments and ask questiones. Besides the manual, she also gave lectures, which cover wider information about the lab which are very helpful.  |
|           |       | <b>Question: Comments:</b>   |
| LUKISHOVA | > 75% | I had a very vague understanding of what all the topics we touched on were, and even less of how it could be at all practical. Now, I can speak better on each of them then any of my colleagues. Not to mention, I have always had an interest in what the next "big thing" has been, and this whole course is based on what IS going to be the future of practically all technology. It was very eye-opening and exciting to work on such material. I hope I get to do it again in the future.   |
| LUKISHOVA | > 75% | She made it look easy.   |
| LUKISHOVA | > 75% | It is very free in this class. Whenever you have questions, we can discuss with the Professor. And no intense pressure about assignments and exam, because we usually have enough time, and we can improve them. So it makes me more relax to do it, and be willing to pay more efforts to get a higher score.   |
|           |       | <b>Question: Comments:</b>   |
| LUKISHOVA | > 75% | Thanks again. Not only was it fun and entertaining most of the time, but the experience I have gained really excites me. I truly believe I have finally learned something from taking a course.  |
| LUKISHOVA | > 75% | I greatly recommend this course for students who are interested in quantum and quantum optics.   |
|           |       | <b>Question: Comments:</b>   |
| LUKISHOVA | > 75% | She says it best: we are students, we are learning, don't be afraid to get anything wrong, you must try and learn. I wish every professor / teacher / mentor, whatEVER had this mentality towards passing knowledge on. It was incredibly easy to learn everything from Doctor Lukishova because she understood that we were, well, just students and just gaining the abilities to discern what is actually going on. She cared an almost ridiculous amount about how well we took on the material. It was awesome to have a teacher really be there every step of the way and make sure that we got every inch of material.  |
| LUKISHOVA | > 75% | Meetings were easy to set, and will meet with you whenever you need. She is a very caring instructor, she insures that everyone understands the material before moving on.   |
| LUKISHOVA | > 75% | My classmates and I always discussed with Professor Lukishova. She often inspired students to ask questions.   |
|           |       | <b>Question: What are the major strengths of this instructor?</b>  |

|           |       |  |
|-----------|-------|--|
| LUKISHOVA | > 75% | She cared extremely about our learning, not about our passing the class, our absorbing the material that she put in front of us. It was inspiring to be around someone that had such care for their work that they wanted to teach us so fully. Loved it! Thank you so much. |
| LUKISHOVA | > 75% | knowledgeable, caring, fair.   |
| LUKISHOVA | > 75% | Professor Lukishova is very professional in this research area. Furthermore, she knows how to teach well and she understands students very much.   |
|           |       | <b>Question: What are the major weaknesses of this instructor? Please make suggestions for improvement.</b>  |
| LUKISHOVA | > 75% | To cite a weakness would be a flaw in itself. I had NO problems all semester and find it hard to even fathom that someone would have a problem with how she conducted everything.  |
| LUKISHOVA | > 75% | organization, especially with due dates.   |
|           |       | <b>Question: If there are any other further comments you would like to make about this course, please do so in the space provided below.</b>   |
| LUKISHOVA | > 75% | I am going to parade the need for this course to be taken around to everyone. Every underclassmen I know better be signed up. I would be very upset if this course went unnoticed for any longer!  |