**Course Plan**

**Preparatory Courses: M.Sc.**

1. **Course Data**

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| --- | --- |
| **Course Title** | Advanced Light Physics Code: EMP 502 |
| **Academic Year / Semester** |  2014 / 2015 First Semester |
| **No. of Hours per week** | Lecture: 3 hours Tutorial: -- Total: 3 hours |
| **Course Coordinator** |  |
| **Course Instructor** |  |

1. **Course Contents and Lectures**

|  |  |
| --- | --- |
| **Lecture / Week** | **Topic** |
| 1 | Light absorption  |
| 2 | Light absorption  |
| 3 | Light absorption  |
| 4 | Light scattering |
| 5 | Light scattering |
| 6 | Light scattering |
| 7 | Interference of polarized light |
| 8 | Interference of polarized light |
| 9 | Interference of polarized light |
| 10 | Quantum light |
| 11 | Quantum light |
| 12 | Quantum light |
| 13 | Quantum light |
| 14 | Quantum light |

1. **Assessment Details**

|  |  |  |  |
| --- | --- | --- | --- |
| Methods of Assessment | Grading Mode | Weighting % | Outline Details |
| Assignments / Reports | 60 |  20% |  |
| Attendance |  |  |  |
| Oral Exam  | 60 | 20% |  |
| Final Exam  | 180 | 60% | Week 15: 3 hours |

1. **References**

**Course Notes:**

* Lecture material and training sheets.

**Recommended Books:**