

SYLLABUS

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| <i>Classification</i> | Lecture5 | <i>Course No.</i> | | <i>Instructor</i> | Dr. Nan Ei Yu |
| <i>Course Title</i> | Introduction of Nonlinear Optics and Applications | | | | |
| <i>Course Outline</i> | | | | | |
| <p>This lecture is an introduction of nonlinear optics based on the 2nd-order nonlinearity. The lecture will cover:</p> <ul style="list-style-type: none">- Introduction of $\chi(2)$ nonlinearity at several single crystals- Frequency Conversions such as second harmonic generation(SHG), difference frequency generation(DFG), sun frequency generation (SFG) and so on- Development of primary color of Red, Green and Blue for Laser Display application- Laser matter interaction in terms of high power operation | | | | | |
| <i>Prerequisite and References</i> | | | | | |