

Lecture in Optical Materials and Devices, Part 3

1 unit (selection)

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Target This class addresses the recognition of the optical materials and devices from a chemical point of view.

Outline This course will focus on the fundamentals and current topics in chemical preparation, reaction, structure, and functionality of the optical materials and devices.

Keyword *photo-functional materials*

Relational Lecture “**Macromolecular Design**”(0.5)

Requirement Students are required to have a good understanding of undergraduate-level photochemistry.

Notice You have to prepare for next lesson and review that day's lesson for 2 hrs respectively against 2 hr lesson to understand the lesson and acquire the credits.

Goal

1. To understand the exact nature of the optical properties of materials.
2. To understand the precise procedure to design and evaluate the optical materials and devices.

Schedule

1. Introduction to optical materials and devices for this class
2. Photo and thermal reactions
3. Photochemical process
4. Photophysical chemistry
5. Interaction between light and media (1)
6. Interaction between light and media (2)
7. Interaction between light and media (3)
8. Final test, summary

Evaluation Criteria Final test: 100%

Textbook Hikarikinoubunshi no Kagaku ed. by K. Horie and H. Ushiki (Kodansha)

Contents <http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=216824>

Contact

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