

강의계획서

검색조건 :

교양/교직/군사학

핵심교양(영역1) 글쓰기(1-①)

[수업시간][건물 및 교과구분 코드][검색]

[한글강의계획서보기]

| | |
|-------------------|---|
| Course Title | Fundamentals of Modern Optics |
| Course Code | ELEC989001 |
| Credits | 3.0 |
| Department | 전자공학부 |
| Semester | 20161 |
| Course Categories | 전공 |
| Instructor | |
| Hours | 수7A7B8A 수8B9A9B |
| Location | IT대 학1 호관(공대10호관)318 IT대 학1 호관(공대10호관)318 |
| Phone/E-mail | ** 통합정보시스템 로그인- 수업/성적- 수업- "강의담당교수조회"에서 확인 가능함. |
| Office Hours | |
| language | 한국어 |

[Syllabus]

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| Course Goals and Objectives |
| <ul style="list-style-type: none"> ◆To understand the principles of basic properties of light ◆To understand the principles of various applications of modern optics |
| Textbook and other references |
| <ul style="list-style-type: none"> ◆ Textbook: Fundamentals of photonics (second edition) -B. E. A. Saleh and M. C. Teich Optics (fourth edition) |

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| - Eugene Hecht |
| Course Description, Methods, and Materials |
| <ul style="list-style-type: none"> ◆ Lecture will be given according to the main text. ◆ Depending on the case, additional PDF files will be provided. ◆ Interactive lectures are preferred. |
| Assignments, Grading Criteria, Prerequisite Subject |
| <ul style="list-style-type: none"> ◆ Midterm Exam + Final Exam : 70-80% ◆ Assignment, attendance and participation: 20-30% |
| Notice To Students |
| <ul style="list-style-type: none"> ◆ Evaluation and Lecture plan might be changed. ◆ In principle, repeat student will be evaluated from the 90% weighted grade. |
| Notice To Students with Disabilities |
| <p>A. Hearing Impaired : First row priority seating, Class transcript may also be provided</p> <p>B. Developmentally Challenged : Extended Test period</p> <p>C. Brain lesions : Extended Test Period, Class Transcripts may also be provided</p> <p>D. Visually Impaired : Larger Font test will be provided</p> <p>Other: Aid offered depend ant on specific disabilities</p> |

[Course Lesson Plan]

| no | Course Goals and Objectives | Assignment | Text & Materials | Etc. |
|----|---|------------|------------------|------|
| 1 | Introduction and Brief reviews | | | |
| 2 | Ray optics | | | |
| 3 | Wave optics | | | |
| 4 | Geometrical optics | | | |
| 5 | Nonlinear Optics | | | |
| 6 | Diffraction , Interference (Holography), and Tomography | | | |
| 7 | Fourier optics | | | |
| 8 | Midterm Exam | | | |
| 9 | Fiber optics and Waveguides | | | |
| 10 | Resonator Optics and Photonic Crystal | | | |
| 11 | Statistical Optics (Basics of coherence theory) | | | |
| 12 | Laser, Metamaterials | | | |

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|----|---|--|--|--|
| 13 | Semiconductor optics I (LED, SOA, Laser Diodes, etc.) | | | |
| 14 | Semiconductor optics II (LED, SOA, Laser Diodes, etc.) | | | |
| 15 | Final Exam | | | |

Cheating, plagiarism, and other dishonest practices will be punished as harshly as Kyungpook National University policies allow. The University specifies that cheating is grounds for dismissal. Penalties less severe may be imposed instead. A list of possible disciplinary actions is given below. Actions by the university:

- Failure in course
- Suspension from university for a designated period
- Expulsion from university