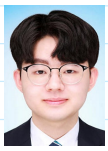
CM01 230905 Syllabus & Twin Tower of EE

2023년 8월 8일 화요일 11:56

Syllabus for Fall 2023 (Last update: 09/05/23)

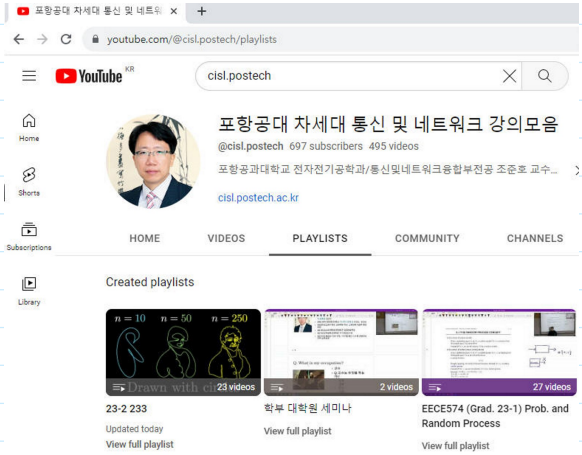
- **Course Title:**
  EECE 233 Signals and Systems (3-0-3)
  EECE 233 신호 및 시스템 (3-0-3)
- **Meeting Schedule:**
  In-class meetings at LG 102 on every **TTh 11:00-12:15**. For exceptions, see **Schedule/Downloads**.
- **Instructor:** Professor Joon Ho Cho

  Office) LG 409
  Phone) +82-54-279-2377
  E-mail) jcho (at) postech (dot) ac (dot) kr
  Office Hours: 15 minutes before and after the in-class meeting; by appointments
- **TA:** 함범주



  E-mail> bjham (at) postech (dot) ac (dot) kr
  Office Hours: TBA
- **Tutor:** 신동환

  • E-mail> sdh0609 (at) postech (dot) ac (dot) kr
  Office Hours: TBA
- **Homepage:** http://cisl.postech.ac.kr/class/eece233/
  - **Announcements, HW, Quiz, Exams** will be updated on PLMS: https://plms.postech.ac.kr/course/view.php?id=8640
  - You can download **lecture resources** from the homepage: http://cisl.postech.ac.kr/class/eece233/schedule.htm
- YouTube Channel: Search for "cisl.postech" at YouTube.



  - 23-2학기 강의 영상: https://www.youtube.com/playlist?list=PL2fxOURY4wI7NV7dYuc9-jseNuh2DHv_s
  - 22-2학기 강의 영상: https://www.youtube.com/playlist?list=PL2fxOURY4wI6M9MIXhn119lMd5iiBgnt-
  - 20-2학기 강의 영상: https://www.youtube.com/playlist?list=PL2fxOURY4wI6NWnmUWaRuVmgbVXX_GR1s

  While I will make every effort to upload videos of all class meetings, please note that it is not my responsibility to ensure that all videos are available. Thank you for your understanding.
- **Course Requirements:**

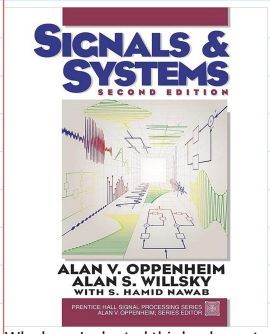
	Weight
1. Quiz #1 (**TBA**, MM/DD, Lec. #1-#XX at LG 102)	**10 %/Fail**
2. midterm exam (**TBA**, MM/DD, Lec. #1-#XX at LG 102)	**20 %/Fail**
3. Quiz #2 (**TBA**, MM/DD, Lec. #1-#XX at LG 102)	**10 %/Fail**
4. Final exam (**TBA**, MM/DD, Lec. #1-#29 at LG 102)	**40 %/Fail**
5. Homework	**20 %/Fail**
6. Class attendance (>=3/4 of total)	**Pass/Fail**
7. Voluntary Project	**1 grade up or not**
	100 %

Quiz and Exam: Open everything except no interactive assistance

Homework: No collaboration allowed.

- **Attendance**
  - There will be no penalty at all until 1/4 unexcused absences of approx. 30 class meetings including those within the registration period.
  - But more than 1/4 unexcused absences will result in F without exception.
  - For excused absences, please provide the related documents and confirm that the electronic attendance system shows your attendance.
  - Remember that the system regards 2 late attendances as a single absence.
- **Grading Policies for Homework and Quiz**
  - Re-grade requests must be filed in writing **within one week** after graded quizzes have been returned to students.
- **Grading Policies for Exam**
  - Re-grade requests must be filed in writing **within one week** after the graded exam has been returned to students.
- **Final Grade**

        - How to obtain the final weighted sum: https://youtu.be/XcCtY-25ybg?t=8
        - If you achieve >1.5 sigma in the weighted sum: https://youtu.be/XcCtY-25ybg?t=52
        - How to determine the final grade: https://youtu.be/XcCtY-25ybg?t=148
    - **Voluntary Project**: 15-20 min. presentation on your report, MATLAB code, etc.
        - If you are about to fail in this course: https://youtu.be/XcCtY-25ybg?t=189
        - This is not applicable if your unexcused absences > 1/4 of class meetings.
    - **What I expect from you in this course**:
        - How to study in POSTECH: https://youtu.be/ol9eLr2XAQI
        - Greek Letters: https://youtu.be/0mt0FOEzTzE
    - **Policy on Academic Dishonesty**
        - If the instructor suspects academic dishonesty, the instructor will notify the student(s) and follow the procedure to report to the school without any exception.
        - Students have the responsibility to be knowledgeable about the consequences of dishonesty.
        - See, recently published report cover page and academic honesty guide.
- **Textbook:** You are strongly advised to buy/obtain the textbook.
  A. V. Oppenheim and A. S. Willsky, *Signals and Systems*, 2nd Edition. Prentice Hall, 1996



Why have I adopted this book as a text? https://youtu.be/-AUDj-PqILs

- **References:** These references are available at the POSTECH library.
  H. Hsu, *Schaum's Outline of Signals and Systems*, McGraw-Hill, 1995 (The book is available as an e-Book at the POSTECH library.)
  Haykin, Van Veen, *Signals and Systems*, 2nd Edition
- **Pre-requisites:** (For any pre-requisite related questions, consult the instructor.)
  Calculus, Linear Algebra, Differential Equations (or working knowledge on linear constant-coefficient differential equations)
- **Course Objectives:**
  This course lays the groundwork for further studies in Communications, Signal Processing, Control, and related fields. By completing this course, students will gain an understanding of:
  1. the concepts of **signals and systems**,
  2. how to **analyze** linear time-invariant systems by using time-domain and frequency-domain approaches,
  3. how to **design** linear time-invariant systems by using time-domain and frequency-domain approaches,
  4. how to **convert** a continuous-time signal to a discrete-time signal, and vice versa.
- **Course Outline**
  Order of the coverage (The numbers are the chapter numbers of the textbook)
  1. Signals and Systems
  2. Linear Time-Invariant Systems
  3. Fourier Series Representation of Periodic Signals
  4. Continuous-time Fourier Transform
  5. Discrete-time Fourier Transform
  6. Time and Frequency Characterization of Signals and Systems
  9. Laplace Transform
  10. Z-transform
  7. Sampling
  8. Communication Systems

출처: <http://cisl.postech.ac.kr/class/eece233/index.htm>

- 전자전기공학의 두 갈래 https://youtu.be/XszV5U4ouow
  - 어떤 논리적, 수학적 기능을 하면 유용한가?
  - 그러한 기능을 하는 전자제품을 어떻게 만들어야 하는가?