

# (Syllabus)

| [ 1 ] (Basic Information)         |                                                                                 |                                             |    |                                                          |   |
|-----------------------------------|---------------------------------------------------------------------------------|---------------------------------------------|----|----------------------------------------------------------|---|
| <u>(Course Information)</u>       |                                                                                 |                                             |    |                                                          |   |
| /                                 | 2025 / 2                                                                        | (Campus)                                    |    | (Seoul Campus)                                           |   |
| (Year/Semester)                   |                                                                                 |                                             |    |                                                          |   |
| (Course No.)                      | 58137                                                                           | (Class No.)                                 | 01 | (Credit)                                                 | 3 |
| (Course Title)                    | (ELECTRONICS<br>CIRCUITS)                                                       | /                                           |    | 207 234 ( 1,2,3)                                         |   |
|                                   |                                                                                 | (Time/Room)                                 |    |                                                          |   |
| (Course Classification)           | (Major)                                                                         | (Lecture Type)                              |    | (Lone-teaching<br>course)                                |   |
| (Course Type)                     | (Theoretical course)                                                            | (Medium of<br>Instruction)                  |    |                                                          |   |
| (Accreditation)                   |                                                                                 | (Accreditation of<br>Engineering Education) |    |                                                          |   |
| (College)                         | ICT (College of<br>ICT Engineering)                                             | ( )                                         |    | ICT                                                      |   |
|                                   |                                                                                 | (Department)                                |    |                                                          |   |
| e - class<br>(Usage of e - class) | Yes                                                                             |                                             |    |                                                          |   |
| <u>(Instructor Information)</u>   |                                                                                 |                                             |    |                                                          |   |
| (Name)                            | (Donghyeon Han)                                                                 | (Department)                                |    | (School of<br>Electrical and Electronics<br>Engineering) |   |
| (Office Phone No.)                |                                                                                 | (Contact No.)                               |    | 02 - 820 - 5558                                          |   |
| E - mail<br>(E - mail)            | hdh4797@cau.ac.kr                                                               | (Department Phone No.)                      |    | 02 - 820 - 5558                                          |   |
| 가<br>(Office Hour)                |                                                                                 | (Office Location)                           |    | 310 625                                                  |   |
| (Course Web - site)               | <a href="https://hdh4797.wixsite.com/dhan">https://hdh4797.wixsite.com/dhan</a> |                                             |    |                                                          |   |

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|--------------------------------------------------|----------------------------------|----------------------------|----------------------------------|-------------------------------|--------------------|-------------------|
| [2] / (Learning Objectives/Outcomes)             |                                  |                            |                                  |                               |                    |                   |
| <u>(Course Description)</u>                      |                                  |                            |                                  |                               |                    |                   |
| <p>가 ,</p> <p>가</p> <p>가</p>                     |                                  |                            |                                  |                               |                    |                   |
| <u>(Prerequisites and Co-requisites)</u>         |                                  |                            |                                  |                               |                    |                   |
|                                                  |                                  |                            |                                  |                               |                    |                   |
| <u>(Learning Objectives)</u>                     |                                  |                            |                                  |                               |                    |                   |
|                                                  |                                  |                            |                                  |                               |                    |                   |
| <u>(Learning Outcomes)</u>                       |                                  |                            |                                  |                               |                    |                   |
|                                                  |                                  |                            |                                  |                               |                    |                   |
| [3] (Course Methods)                             |                                  |                            |                                  |                               |                    |                   |
| <u>(Teaching and Learning Methods)</u>           |                                  |                            |                                  |                               |                    |                   |
| (Teaching and Learning Methods)                  |                                  | 가 (Additional Description) |                                  |                               |                    |                   |
| - (Lecture)                                      |                                  |                            |                                  |                               |                    |                   |
| / - (Individual Practical Training)              |                                  | PSpice                     |                                  |                               |                    |                   |
| / - / (Discussion/Debate)                        |                                  |                            |                                  |                               |                    |                   |
| <u>(Assignments)</u>                             |                                  |                            |                                  |                               |                    |                   |
| (Assignments)                                    |                                  | (No.)                      | ( , , )(Assignments Description) |                               |                    |                   |
| (Practice)                                       |                                  | 1                          |                                  |                               |                    |                   |
| (Report)                                         |                                  | 2                          | MOSFET ,                         |                               |                    |                   |
| <u>(Textbooks, Reading, and other Materials)</u> |                                  |                            |                                  |                               |                    |                   |
| (Textbook/Reference)                             | (Title)                          | (Author)                   | / (Year of Publication/etc)      | / (Publisher/Name of Journal) | / (No. of Edition) | ISBN              |
| (Reference)                                      | Fundamentals of Microelectronics | Behzad Razavi              | 2021                             | Wiley                         | 3rd Edition        | 1119695147        |
| (Reference)                                      | Microelectronic Circuits         | Sedra/Smith                | 2011                             | Oxford Univ.Press             | 6th Ed.            | 978-0-19-973851-9 |
| [4] 가 (Student Assessment)                       |                                  |                            |                                  |                               |                    |                   |

| 가 (Assessment Item)     |                          | 가 (%) (Assessment Ratio) | 가 (Additional Description)                   |                                                    |
|-------------------------|--------------------------|--------------------------|----------------------------------------------|----------------------------------------------------|
| (Assignment)            |                          | 5                        |                                              |                                                    |
| (Assignment)            |                          | 10                       |                                              |                                                    |
| /                       | (Participation/Attitude) | 5                        | (가)                                          |                                                    |
| (Mid-term Exam)         |                          | 50                       | No Participation of Midterm Exam = F Grading |                                                    |
| (Final Exam)            |                          | 30                       | No Participation of Final Exam = F Grading   |                                                    |
| [5] (Course Schedule)   |                          |                          |                                              |                                                    |
| (Week)                  | (Instructor)             | (Topic & Content)        | (Student Assignment)                         | 가 (Additional Description & Instructor Assignment) |
| 1                       |                          |                          |                                              |                                                    |
| 2                       |                          |                          |                                              | - , 3가 ,                                           |
| 3                       |                          |                          |                                              | ,                                                  |
| 4                       |                          | MOSFET                   |                                              | MOSFET , DC ac model                               |
| 5                       |                          | MOSFET                   |                                              | MOSFET                                             |
| 6                       |                          | MOSFET                   |                                              | MOSFET                                             |
| 7                       |                          | MOSFET                   |                                              | ,                                                  |
| 8                       |                          |                          |                                              |                                                    |
| 9                       |                          |                          |                                              |                                                    |
| 10                      |                          |                          |                                              | , 가 , ,                                            |
| 11                      |                          |                          |                                              | , 가 가,                                             |
| 12                      |                          | MOSFET                   |                                              | MOSFET                                             |
| 13                      |                          |                          |                                              | , , 가 ,가                                           |
| 14                      |                          |                          |                                              | , 가 가,                                             |
| 15                      |                          |                          |                                              | 가                                                  |
| 16                      |                          |                          |                                              | 1                                                  |
| [6] (Guide to Learning) |                          |                          |                                              |                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>The video lecture will be uploaded.<br/> No check on attendance.<br/> Anonymous communication (Kakao) is used for questions or consultation.</p> <p>Notice about the anonymous communication with Kakao</p> <ul style="list-style-type: none"> <li>- Answer could be delayed until 1 week</li> <li>- No answer from 1 week before the midterm/final exam</li> <li>- Please be polite when you ask or answer</li> <li>- You can ask about not only the lecture but also your future career. But no other personal questions.</li> <li>- If you want a long conversation, email for an in-person consultant: hdh4797@cau.ac.kr</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| (Previous Exam Samples)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| < 가 >(<Download Additional Sample>)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 가 .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| <p>71 【 】 6 47 【<br/> 】</p> <p>( In pursuant to the Article 71 ‘Discipline ’ of the Chung-Ang University Regulations, and Article 47 ‘Punishment for Cheating during Examination ’ under Chapter 6 of the Academic Affairs Management Rules, any student caught engaging in academic misconduct during an exam will be subject to disciplinary action.)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <p>1. : , , , 가</p> <p>2. : , 가</p> <p>3. / : 가 , 가</p> <p>4. : 02-820-6577~9( ), 031-670-4816( )<br/> ( cauable)</p> <p>In this class, students with disabilities are eligible for reasonable accommodations depending on the type and severity of disability. If you wish to receive accommodations listed below, please contact the Support Center for Students with Disabilities.</p> <p>1. Visual Impairment: Braille, large print, electronic class materials, volunteer note-taker, adjustments in assessment practices, etc.</p> <p>2. Hearing Impairment: Volunteer note-taker, stenographer, adjustments in assessment practices, etc.</p> <p>3. Physical Disabilities/Brain Lesions: Classrooms with wheelchair access, volunteer note-taker, adjustments in assessment practices, etc.</p> <p>4. Accommodations for students with other psychiatric disabilities or health impairments can be arranged through the Support Center for Students with Disabilities after consultation.</p> <p>Inquiry: 02-820-6577~9 (Seoul Campus), 031-670-4816 (Anseong Campus)</p> <p>- KakaoTalk Plus Friend ID: @cauable</p> |  |