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| **Faculty Information** | **Name** | Hongyun So |
| **E-mail** | hyso@hanyang.ac.kr |
| **Home University** | Hanyang University |
| **Department** | Mechanical Engineering |
| **Homepage** | https://ma2p.hanyang.ac.kr/ |
| **Course Information** | **Class No.** | TBA | **Course Code** | COE3052 | **Credits** | 3 |
| **Course Name** | Engineering Mathematics 2 |
| **Lecture Schedule** | Mon-Fri / 09:00 ~ 15:00 |
| **Course Description** | In this class, engineering mathematics including complex numbers, conformal mapping, complex integration, linear system of equations, and Gauss elimination will be introduced for students in engineering fields. |
| **Course Objective** | As an engineer, this course provides the basic concept of complex mathematics as a basic mathematical knowledge to know. In addition, it systematically guides complex integration to help students complete major subjects and cultivate mathematical knowledge and scientific thinking skills. |
| **Prerequisite** | * -
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| **Materials/Textbooks** | Advanced Engineering Mathematics / Erwin Kreyszig /John Wiley & Sons |
| **Evaluation** | **Attendance** | 10% | Quiz | % |
| **Assignment** | % | Mid-term Exam | 40% |
| **Presentation** | % | Final Exam | 40% |
| **Group Project** | % | Participation | 10% |
| **Etc.** | **Evaluation Item** | **Ratio** |
|  | % |
|  | % |
| **Daily** **Lecture Plan** | **Day 1** | Linear Algebra: Matrices, Vectors |
| **Day 2** | Linear Algebra: Determinants |
| **Day 3**  | Complex Numbers and Functions, Hands-on Practice 1 |
| **Day 4** | Complex Differentiation |
| **Day 5** | Midterm |
| **Day 6** | Cauchy’s Integral Theorem, Hands-on Practice 2 |
| **Day 7** | Derivatives of Analytic Functions |
| **Day 8** | Power Series, Taylor Series, Maclaurin Series |
| **Day 9** | Final |