Engineering Mathematics II (11120MS 20120)

Class Time: T3T4/R3R4

Class Room: 台達 B05

Instructor: Ta-Jen Yen (嚴大任)
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Textbooks: Advanced Engineering Mathematics (2nd edition), *Michael D. Greenberg*, 滄海書局

Grading: Quizzes (x3, 25%)
Mid-terms (x2, 50%)
Final (25%)

TAs: TBA

TA Hours: TBA

OCW: http://ocw.nthu.edu.tw/ocw/index.php?page=course&cid=127&

Content:

The subject of ***Engineering Mathematics*** is comprised of five parts within two semesters:

1. Ordinary Differential Equations (Chapters. 2-7)
2. Linear Algebra (Chapters. 8-12)
3. ***Multivariable Calculus and Field Theory*** (Chapters. 13-16)
4. ***Fourier Methods and Partial Differential Equations*** (Chapters. 17-20)
5. ***Complex Variable Theory*** (Chapters. 21-24)

In <u>*Engineering Mathematics II*</u>, we focus on "***Multivariable Calculus and Field Theory***", "***Fourier Methods and Partial Differential Equations***", and "***Complex Variable Theory***" to cover the rationale and of particular the engineering applications. Note that this course should be given in **English**. Yet, due to rapidly escalating health concerns relating to the spread of the coronavirus disease (COVID-19), the 2020 Engineering Mathematics II will be provided by the clips in OCW website until **early April**. Then, let us decide how to resume the class, depending on the latest status quo.