

ME2002 工程數學下 Engineering Mathematics (2)

Instructors:

- Prof. Jia-Yang Juang (莊嘉揚), 工綜 713, 02-33669406, jiayang@ntu.edu.tw
- Teaching Assistant, 徐亦賢, 工綜 410, r08522503@ntu.edu.tw

Class Meetings:

- Lecture, Monday 34, 工綜 211 and Wednesday 2, 工綜 211
- Office Hours, 莊嘉揚: Mondays 1-3 pm, or by appointment
徐亦賢: Wednesdays 12:30-14:30, or by appointment

Course Website: <http://homepage.ntu.edu.tw/~jiayang/me2002/2020s/syllabus.htm>

Textbook:

- Zill, Advanced Engineering Mathematics 6th

Grading:

- 60% three midterm exams: 20% each, closed book (open one handwritten A4 sheet), no make-up
- 20% final exam: closed book (open one handwritten A4 sheet), no make-up
- 20% quizzes: 4 次，隨機隨堂考。另外，考試全勤額外獲得 2%

Tentative Schedule:

Week	Dates	Topics	Chapters
1	3/2, 3/4	- Course outline - Vector differential calculus	9
2	3/9, 3/11	- Vector integral calculus	9
3	3/16, 3/18	- Vector integral calculus - Fourier series	9 12
4	3/23, 3/25	- 3/23 Midterm 1 - Fourier series	12
5	3/30, 4/1	- Sturm-Liouville Theory	12
6	4/6, 4/8	- Fourier integral	15
7	4/13, 4/15	- Fourier transform	15
8	4/20, 4/22	- 4/20 Midterm 2 - Boundary-value problem/PDE	13
9	4/27, 4/29	- Boundary-value problem/PDE	13
10	5/4, 5/6	- Boundary-value problem/PDE	13
11	5/11, 5/13	- Boundary-value problem/PDE	14
12	5/18, 5/20	- 5/18 Midterm 3 - Complex analysis (variable and property)	17
13	5/25, 5/27	- Complex analysis	17 18
14	6/1, 6/3	- Complex analysis (integration in the complex plane)	18
15	6/8, 6/10	- Complex analysis (residue theorem)	19
16	6/15	Final Exam	