

Course Information	
Course title	Engineering Mathematics 2
Semester	114-2
Designated for	Interdisciplinary Bachelor's Program in College of ENGINEERING
Instructor	MOHAMMAD TABARROKI
Curriculum Number	CIE1016
Curriculum Identity Number	501E12020
Class	01
Credits	2.0
Full/Half Yr.	Half
Required/ Elective	Required
Time	Tuesday 6,7(13:20~15:10)
Remarks	Restriction: freshmen AND Restriction: within this department (including students taking minor and dual degree program) The upper limit of the number of students: 5.
Course introduction video	
Table of Core Capabilities and Curriculum Planning	Table of Core Capabilities and Curriculum Planning

Course Syllabus	
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Course Description	This course offers an in-depth exploration of ordinary differential equations (ODEs) that are essential for engineering applications. We will cover topics such as first-order, second-order, and higher-order ODEs, systems of ODEs, series solutions, and Laplace transforms. The course aims to equip students with fundamental mathematical techniques that are relevant and applicable to civil engineering problems.
Course Objective	Upon completion of this course, students will be able to: 1. To solve first-order, second-order, and higher-order ordinary differential

	<p>equations (ODEs).</p> <ol style="list-style-type: none"> To solve systems of ODEs. To apply series solution methods to ODEs. To apply Laplace transforms to solve ODEs. To model and analyze engineering systems using ODEs 	
Course Requirement		
Student Workload (Expected weekly study hours before and/or after class)	3–5 hours per week	
Office Hours		
Designated reading		
References		
Grading	<ol style="list-style-type: none"> NTU has not set an upper limit on the percentage of A+ grades. NTU uses a letter grade system for assessment. The grade percentage ranges and the single-subject grade conversion table in the NATIONAL TAIWAN UNIVERSITY Regulations Governing Academic Grading are for reference only. Instructors may adjust the percentage ranges according to the grade definitions. For more information, see the Assessment for Learning Section. 	
Progress		
Week	Date	Topic
No data		