



## MA6251 Topics in Applied Mathematics I

For Semester 1, AY2020/2021

<b>Lecturer in charge:</b>	Yu, Shih-Hsien
<b>Timetable:</b>	Refer to online timetable
<b>Course Title:</b>	Topics in viscous conservation laws
<b>Course Description:</b>	In this topic we will briefly introduce conservation laws including hyperbolic conservation laws, viscous conservation laws, and discrete conservation laws as well as their relationship. The viscous conservation laws will be the main focus. The time asymptotic stability problem aroused from the nonlinear wave patterns such as shock layers, boundary layers, and rarefaction waves is the main interests of this topics course. We will survey various analysis for those nonlinear problem.
<b>Eligibility/Prerequisite:</b>	MA4221
<b>Assessment Mode and Weightage:</b>	100% CA