

# An Introduction to Theoretical Fluid and Plasma Physics (1)

*Thursday 1 December 2022 16:00 (40 minutes)*

**Abstract:** Plasma refers to an electrically conducting medium in which there are roughly equal numbers of positively and negatively charged particles, produced when the atoms in a gas become ionized. In this presentation, an introduction to theoretical study of plasma that treats the plasma as a fluid governed by a combination of Maxwell's equations and the Navier–Stokes equations known as magnetohydrodynamics. Relevant applications of fluid and plasma in engineering, industrial and technology will be discussed.

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**Session Classification:** Students Parallel session 1