CE7E03: E3 – Air Quality and Noise Pollutions [5 credits]

Module Co-Ordinator(s): Prof. Laurence Gill (laurence.gill@tcd.ie)
Lecturer(s): Assist. Prof. Francesco Pilla (pillaf@tcd.ie), Assoc. Prof. Bruce Misstear (bmisster@tcd.ie) and Assist. Prof. Aonghus McNabola (amcnabol@tcd.ie)

Module organisation
Department of Civil, Structural and Environmental Engineering

Module description, aims and contribution to programme
To introduce students to a wide range of topics within environmental engineering.

Learning outcomes
Students will gain an understanding of:
1. Knowledge of the issues surrounding air, noise & water pollution, and environmental modelling.
2. Understanding of a number of assessment techniques.
3. Water supply and sanitation, including water supplies for rural areas in developing countries.

Module content
Calibri 12

Teaching strategies
Lectures and coursework.
3 hours per week for one semester.

Assessment
Written examination; two individual assignments [one on air pollution, one on noise pollution] worth 15% if overall course mark.

Required textbook
Fundamentals of Environmental Engineering – Mihelcic [Wiley]
Wastewater Engineering – Metcalf and Eddy [McGraw – Hill]
Water Supply – Twort et al. [IWA]
Engineering in Emergencies – Davis and Lambert [ITDG]

Further information
School of Engineering weblink.