

Advanced Structural Analysis (CEGE0046)

Description

This module uses exciting practical applications to introduce different forms of advanced structural analysis. In all cases the emergence of structural analysis as an amalgam of material behaviour, equilibrium and compatibility considerations is emphasised. The practical applications are timber-concrete composites (where slip analysis is the key), double-stiffness hyperstatic spans (where moment optimisation analysis via manipulation of stiffness distributions is the key), FRP-plated reinforced concrete sections (where analysis to show the effect of material nonlinearities on plated section behaviour is key) and FRP bridges where dovetailing of structural analysis and design to enable definition of one such bridge is the key. The first three topics are assessed via a 2 hour exam at the end of the academic year, while the fourth is assessed via coursework. The split is exam 70% : coursework 30%. /p>

Key information

Year	2019/20
Credit value	15 (150 study hours)
Delivery	PGT L7, Campus-based
Reading List	View on UCL website
Tutor	Dr Wendel Sebastian
Term	Term 1
Timetable	View on UCL website

Assessment

Find out more

For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk

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