Computational Fluid Dynamics

MECH4620

6 Units of Credit

This course will focus on the terminology, principles and methods of CFD - Computational Fluid Dynamics.

CFD can be applied in many areas of engineering, including aerodynamics, hydrodynamics, air-conditioning and minerals processing. The aims of this course are: (i) Use of CFD in the context of a useful design tool for industry and a vital research tool for thermos-fluid research, (ii) Familiarize with the basic steps and terminology associated with CFD which includes developing understanding of the conservation laws applied to fluid motion and heat transfer and basic computational methods including explicit, implicit methods, discretization schemes and stability analysis, (iii) Develop practical expertise of solving CFD problems with commercial CFD codes and (iv) Develop an awareness of the power and limitations of CFD.
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<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>Faculty of Engineering</th>
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<tbody>
<tr>
<td><strong>School</strong></td>
<td>School of Mechanical and Manufacturing Engineering</td>
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<tr>
<td><strong>Study Level</strong></td>
<td>Undergraduate</td>
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<tr>
<td><strong>Offering Terms</strong></td>
<td>Term 1, Term 3</td>
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<td><strong>Campus</strong></td>
<td>Kensington</td>
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<tr>
<td><strong>Delivery Mode</strong></td>
<td>Fully on-site</td>
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<tr>
<td><strong>Indicative contact hours</strong></td>
<td>4</td>
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<tr>
<td><strong>Timetable</strong></td>
<td>Visit timetable website for details</td>
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Conditions for Enrolment

Prerequisite: MMAN2600 and MMAN2700
Exclusion Courses

MECH9620 | 6 UOC
Computational Fluid Dynamics
Course Outline

To access course outline, please visit:

MECH4620 Course Outline
Fees

Commonwealth Supported Students  $1170
Domestic Students  $5790
International Students  $5790

DISCLAIMER
Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the fee website.

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty. Fees for courses delivered through UNSW Global are published and charged by UNSW Global and thus appear as "Not Applicable" on this site.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions