Overview

The course considers the requirements for electronic payment systems and how these requirements are realised using distributed ledger technologies. The technical ideas studied include the key cryptographic constructs, economic incentive mechanisms and distributed algorithms underpinning cryptocurrencies such as Bitcoin and Ethereum. The concept of smart contract will be introduced, and the course aims to develop a basic facility with programming smart contracts on one cryptocurrency platform. The course also aims to introduce students to the broader context of the range of alternate designs for distributed ledger technologies, the range of potential applications for these technologies, and the socio-economic, ethical and legal dimensions of their use.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>Faculty of Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>School</strong></td>
<td>School of Computer Science and Engineering</td>
</tr>
<tr>
<td><strong>Study Level</strong></td>
<td>Postgraduate</td>
</tr>
<tr>
<td><strong>Offering Terms</strong></td>
<td>Term 1</td>
</tr>
<tr>
<td><strong>Campus</strong></td>
<td>Kensington</td>
</tr>
<tr>
<td><strong>Delivery Mode</strong></td>
<td>Fully on-site</td>
</tr>
<tr>
<td><strong>Indicative contact hours</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Timetable</strong></td>
<td>Visit timetable website for details</td>
</tr>
</tbody>
</table>
Conditions for Enrolment

Pre-requisite: COMP2521 OR COMP9024
Course Outline

To access course outline, please visit:

COMP6451 Course Outline
Fees

Commonwealth Supported Students $1191
Domestic Students $4470
International Students $5910

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.

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
© UNSW Sydney (CRICOS Provider No.: 00098G), 2019. The information contained in this Handbook is indicative only. While every effort is made to keep this information up-to-date, the University reserves the right to discontinue or vary arrangements, programs and courses at any time without notice and at its discretion. While the University will try to avoid or minimise any inconvenience, changes may also be made to programs, courses and staff after enrolment. The University may also set limits on the number of students in a course.

Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179