

# COMP90020 Distributed Algorithms

<b>Credit Points:</b>	12.50						
<b>Level:</b>	9 (Graduate/Postgraduate)						
<b>Dates &amp; Locations:</b>	This subject is not offered in 2013.						
<b>Time Commitment:</b>	Contact Hours: 3 hours contact per week Total Time Commitment: 120 hours						
<b>Prerequisites:</b>	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>COMP90015 Distributed Systems</td> <td>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	COMP90015 Distributed Systems	Not offered 2013	12.50
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COMP90015 Distributed Systems	Not offered 2013	12.50					
<b>Corequisites:</b>	None						
<b>Recommended Background Knowledge:</b>	None						
<b>Non Allowed Subjects:</b>	None						
<b>Core Participation Requirements:</b>	<p>&lt;p&gt;For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.&lt;/p&gt; &lt;p&gt;It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: &lt;a href="http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability&lt;/a&gt;&lt;/p&gt;</p>						
<b>Contact:</b>	<p>Dr Adrian Pearce</p> <p>email: <a href="mailto:adrianrp@unimelb.edu.au">adrianrp@unimelb.edu.au</a> (mailto:adrianrp@unimelb.edu.au)</p>						
<b>Subject Overview:</b>	The Internet, World Wide Web, bank networks, mobile phone networks and many others are examples for Distributed Systems. Distributed Systems rely on a key set of algorithms and data structures to run efficiently and effectively. In this subject, we learn these key algorithms that professionals work with while dealing with various systems. Clock synchronization, leader election, mutual exclusion, and replication are just a few areas where multiple well known algorithms were developed during the evolution of the Distributed Computing paradigm.						
<b>Objectives:</b>	<p>On successful completion students should:</p> <ul style="list-style-type: none"> <li># Have developed an understanding of distributed algorithm design</li> <li># Be able to implement and analyse distributed algorithms</li> </ul>						
<b>Assessment:</b>	Term project including a report (2000 words) and a 10 minute presentation (together worth 40% of the final mark) due week 10-12 of the semester. One 3-hour written examination (60% of the final mark). ILO 1 is assessed by all the components. ILO 2 is assessed by the project component. All components should be completed satisfactorily to obtain a passing mark in this subject.						
<b>Prescribed Texts:</b>	None						
<b>Breadth Options:</b>	This subject is not available as a breadth subject.						
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>						

<b>Generic Skills:</b>	On completion of this subject students should: <ul style="list-style-type: none"><li># Ability to undertake problem identification, formulation and solution</li><li># Capacity for independent critical thought, rational inquiry and self-directed learning</li><li># Profound respect for truth and intellectual integrity, and for the ethics of scholarship</li></ul>
<b>Related Course(s):</b>	Master of Engineering in Distributed Computing Master of Information Technology Master of Information Technology Master of Information Technology Master of Philosophy - Engineering Master of Science (Computer Science) Master of Software Systems Engineering Ph.D.- Engineering
<b>Related Majors/Minors/ Specialisations:</b>	Computer Science Master of Engineering (Software)