

COMP90015 Distributed Systems

Credit Points:	12.50												
Level:	9 (Graduate/Postgraduate)												
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus.												
Time Commitment:	Contact Hours: 24 hours of lectures, 12 hours of tutorial/laboratory classes: Total Time Commitment: 120 hours.												
Prerequisites:	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>COMP90041 Programming and Software Development</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>COMP90038 Algorithms and Complexity</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>COMP90007 Internet Technologies</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>OR Equivalent subjects.</p>	Subject	Study Period Commencement:	Credit Points:	COMP90041 Programming and Software Development	Semester 1, Semester 2	12.50	COMP90038 Algorithms and Complexity	Semester 1, Semester 2	12.50	COMP90007 Internet Technologies	Semester 1, Semester 2	12.50
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COMP90038 Algorithms and Complexity	Semester 1, Semester 2	12.50											
COMP90007 Internet Technologies	Semester 1, Semester 2	12.50											
Corequisites:	None												
Recommended Background Knowledge:	None												
Non Allowed Subjects:	None												
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/												
Coordinator:	Dr Aaron Harwood, Prof Rajkumar Buyya												
Contact:	Professor Rajkumar Buyya email: rbuyya@unimelb.edu.au (mailto:rbuyya@unimelb.edu.au)												
Subject Overview:	Topics covered include: introduction, principles and paradigms, design issues, communication, processes, naming, synchronization, consistency and replication, fault tolerance, and security issues in distributed systems and applications; distributed computing environments and standard toolkits, case studies in distributed systems and applications.												
Objectives:	On completion of the subject, students should: # Have an understanding of the principles and paradigms underlying distributed software systems.												
Assessment:	Project work of approx. 36 hours during semester (40%) and a 3-hour written examination (60%). Both components must be completed satisfactorily to pass the subject.												
Prescribed Texts:	None												

Recommended Texts:	TBA
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<p>On completion of this subject students should:</p> <ul style="list-style-type: none"> # Be able to undertake problem identification, formulation and solution # Have a capacity for independent critical thought, rational inquiry and self-directed learning; and # Have a profound respect for truth and intellectual integrity, and for the ethics of scholarship
Related Course(s):	<p>Master of Engineering in Distributed Computing Master of Science (Computer Science) Master of Software Systems Engineering Postgraduate Certificate in Engineering</p>
Related Majors/Minors/ Specialisations:	<p>Computer Science Master of Engineering (Software)</p>