

COMP90015 Distributed Systems

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, 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; Non-contact time commitment: 84 hours Total Time Commitment: Not available
Prerequisites:	# 433-520 : Programming and Software Development # 433-521 : Algorithms and Complexity # 433-522 : Internet Technologies # or equivalent subjects
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 Egemen Tanin, Dr Shanika Karunasekera, Prof Rajkumar Buyya
Contact:	Melbourne School of Engineering Office Building 173, Grattan Street The University of Melbourne VIC 3010 Australia General telephone enquiries + 61 3 8344 6703 + 61 3 8344 6507 Facsimiles + 61 3 9349 2182 + 61 3 8344 7707 Email eng-info@unimelb.edu.au (mailto:eng-info@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 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

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:	On completion of this subject students should: <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):	Bachelor of Computer Science (Honours) Master of Engineering in Distributed Computing Master of Software Systems Engineering Postgraduate Certificate in Engineering
Related Majors/Minors/ Specialisations:	Master of Engineering (Software)