

Course Name	PARALLEL AND DISTRIBUTED COMPUTING			Course Code	COMP 434				
Credit Hours	3			Contact Hours	Lec	Lab	Total		
					2	2	4		
Offered as	<input type="checkbox"/> University Requirement <input type="checkbox"/> College Requirement <input checked="" type="checkbox"/> Program Requirement <input checked="" type="checkbox"/> Core <input type="checkbox"/> Elective <input type="checkbox"/> ITEC <input checked="" type="checkbox"/> COMP <input type="checkbox"/> CNET								
Level	7			Prerequisite	COMP 333				
Course Description: <p>This course provides an overview of distributed and parallel systems. It covers a broad range of topics related to parallel and distributed computing, including parallel and distributed architectures and systems, cloud platform architecture, parallel and distributed programming paradigms, parallel algorithms, and scientific and other applications of parallel and distributed computing.</p>									
Upon completion, the student will be able to: <ul style="list-style-type: none"> ◆ Understand distributed systems models. ◆ Understand methods for scalable parallel computing. ◆ Understand virtual machines. ◆ Learn cloud architecture and software as a service platforms. ◆ Gain experience with peer-to-peer computing. 									
Assessment Methods	Exam-1	<input checked="" type="checkbox"/>	10%	Exam-2	<input checked="" type="checkbox"/>	10%	Assignments	<input checked="" type="checkbox"/>	20%
	Attendance	<input type="checkbox"/>	-	Lab Exam	<input checked="" type="checkbox"/>	20%	Final Exam	<input checked="" type="checkbox"/>	40%
Text Book: <ul style="list-style-type: none"> ◆ Kai Hwang, Jack Dongarra, and Geoffrey C. Fox, "Distributed and Cloud Computing: from Parallel Processing to the Internet of Things", Morgan Kaufmann, 1st Edition, ISBN-9780123858801, 2011. 									
References: <ul style="list-style-type: none"> ◆ Calvin Lin, Larry Snyder, "Principles of Parallel Programming", Addison- Wesley, 2008. ◆ Rajkumar Buyya, James Broberg, Andrzej Goscinski, "Cloud Computing Principles and Paradigms", Wiley Publications, 1st Edition, ISBN: 978 0 470 88799 8, 2011. 									