



Academic Quality Assurance Department

Course Syllabus Form

College	Applied Sciences		
Department	Applied Computing		
Program	Applied Computing		
Course Title	Distributed Systems	Course Number:	15041475
Year	2023 - 2024	Semester:	Summer
Prerequisite(s)	Operating Systems (15041371)		
Instructor	Bashar Ahmad Abu-Diak		
Instructor's e-mail	b.abudiak@ptuk.edu.ps		
Office Hours			
Class Time	[10:00 - 12:00] Sun Mon Tue	Classroom:	E213
Course description	<p>The emphasis of this course is on providing students with an understanding of the fundamental concepts and the state of the art in distributed systems and computing. In addition, students gain theoretical and practical experience of existing platforms and standards in the field. This course is a one semester composition that focuses on both the theoretical and practical issues underlying distributed systems design/architectures, inter process communication, middleware CORBA, RMI, XML, remote procedure call RPC, remote method invocation,</p>		
Course Intended Learning Outcomes (CILOs)	<ol style="list-style-type: none"> 1- Define what a distributed system is; explain its advantages and characteristics. 2- Explain the challenges of constructing distributed systems. 3- Understand what a middleware layer is. 4- Explain what remote method invocation is. 5- Develop some simple distributed application. 		
Textbook(s)	George Coulouris, Jean Dollimore, Tim Kindberg, Gordon Blair, Distributed Systems: Concepts and Design, 5 th Edition, Addison Wesley, 2012.		

Course Teaching Methods	
Teaching Method	CILOs
Lectures	1-5
Semester work	1-5
In-Class Discussions	1-5



Assessment Type	Details/Explanation of assessment in relation to CILOs	Weight	Date(s)
Mid Exam		35%	
Project		20%	
Final Exam		45%	
Total		100%	

Course Intended Learning Outcomes (CILOs)										
CILOs	Mapping to Program ILOs									
On successful completion of the course, students will be able to:	a	b	c	d	e	f	g	h	I	j
CILO 1	X									
CILO 2	X									
CILO 3	X									
CILO 4	X		X							
CILO 5			X	X						

Course Weekly Breakdown			
Week	Topics Covered	CILOs	Assessment
1	Characterization of Distributed Systems	1	Exam, semester work
2			
3	System Models	2	Exam, semester work
4			
5	Networking and Internetworking	3	Exam, semester work
6			
7	Interprocess Communication	3,4	Exam, semester work
8			

Prepared by:	Mr. Bashar Abu-Diak	Signature	
Head of Department	Mr. Shadi AbuAisheh	Signature	
Date	21/07/2024		