Department of Electrical Engineering Final – Term Assignment Spring 2020 Date: 25/06/2020

Course Details

Course Title:	<u>Communication System Design and Service</u> Integration.	Module:	PhD
Instructor:	Dr. Shahid Latif	Total Marks:	50
	Student Details		

Name:

Student ID:

Note: Attempt all of the following questions.

Q1.	Referring to the article "Information System Integration" by Wilhelm Hasselbring. Discuss in your own words the Inter-organizational process for	Marks 20
	vertical fragmentation of organizational units and Horizontal integration to	
	support business processes.	
	Do you agree or not with the conclusion of this article, give your comments.	
Q2.	Referring to An introduction to Service Integration and Management and	Marks 10
	ITIL, summarize how "Service Integration and Management" (SIAM) can be	
	implemented in High-Level model. Covering its main principles and	
	processes involved in its implementation.	
Q3.	Integrated radio communication systems based on IT research article deals	Marks 10
	with complex solutions of radio communication systems for special	
	application especially in air traffic control ATC and integrated rescue systems	
	IRS area.	
	Determine from this paper how this technology integration will help in	
	suitable remote monitoring and control systems?	
Q4.	Concurrent Engineering (CE) is a method for managing the development of	Marks 10
	complex systems. CE is effective; but it requires a set of analytic tools and	
	procedures to operationalize its concepts. Building on fundamental	
	characteristics of complex systems and design decision-making, two	
	principles have been proposed: (1) the 'Iteration' principle encapsulates the	
	fact that there is an inherent, iterative nature to the design process.	
	Iteration results in changes that must propagate through the design stages,	
	requiring upstream rework; (2) the 'Parallelism' principle exploits the	
	possibility of achieving shorter development times by performing multiple	
	development stages in parallel or with some overlap (e.g. by sharing early	
	preliminary upstream information with downstream stages.	
	Discuss the pros and cons of the above statement by giving solid	
	justifications for your arguments.	