Carnegie Mellon Heinzcollege

Course Information	91856 - Managing Information Technology (Z Section) 6 Unit Course Instructor: Murli Viswanathan Office: Level 1 Phone: 81109926 E-mail: mkrishna@ cmu.edu Office hours: Refer to Canvas Course Portal Teaching Assistants: None Meeting Times: Refer to Canvas Course Portal Course Web Site: https://www.cmu.edu/canvas/	
Prerequisites	There are no prerequisites for this course.	
Description	 According to Gartner Worldwide IT spending is projected to total \$3.9 trillion in 2020. Over the last several decades information technology has brought about radical changes across industries and throughout societies. Industry 4.0 technologies including advanced robotics and artificial intelligence; sophisticated sensors; cloud computing; the Internet of Things; data capture and analytics; digital fabrication (including 3D printing); software-as-a-service and other new marketing models; smartphones and other mobile devices; are expected to bring universal cost reductions and revenue gains from their embedding in advanced digitization efforts. Information systems have become integrated with all aspects of business – operations marketing, accounting, finance, and managers are thus expected to manage and use information systems effectively if their organizations are to succeed in today's digital economy. Although most organizations maintain entire departments dedicated to the management of information systems (MIS), managers outside of MIS must lead the changes driven by IS. To do this they must be knowledgeable participants in the decision-making process for leveraging information & information technology to achieve organizational goals. This course examines selected technological features of IS that are essential to the information literacy of the general manager. This course is constructed to provide general managers with the technical knowledge and management methods required to realize the benefits and strategic advantage information systems provide to organizations. The course primarily aims to answers the following three questions: 1. What level of technical knowledge of information and communication technologies to achieve organizational goals? 2. What do non-MIS managers need to know about the current key applications of management information systems and the potential these systems have to transform organizations and create new business models? 3. What	

Course Materials	In addition to lecture notes and some extra readings the following are required: Textbook: Information Systems: A Manager's Guide to Harnessing Technology – Free Ebook. Download from https://open.umn.edu/opentextbooks/textbooks/information-systems- a-manager-s-guide-to-harnessing-technology Readings: Harvard Business Cases & Articles Pack		
Course Objectives	 The course will provide students with the theoretical foundation and practical skills required for the selection, deployment, and management of information systems in the private and public sectors. Specifically, the course seeks to provide students with the following: Basic knowledge of the key information and communication technologies (ICT) that provide the framework for all information systems, with a special emphasis on data. Knowledge of key IS applications and their technical & b applications such as supply chain m as well as eBusiness applications, a A sophisticated awareness of the redinformation systems, and knowledge business architectures and ability to take for obtaining IS applications at Understanding the benefits and lim commonly used in business, such a and executive information systems, Develop a robust understanding of The course content will be delivered throug interspersed with other relevant interesting be provided. Live online weekly consultation sessions w ensuring that there is no conflict with the ot students to meet the instructor and discuss a A discussion board will also be available w provided within 24 hours. 	Image: the second se	

Evaluation Mothod	Student's performance in the class will be evaluated based on 3 components:				
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		Two Assign	ments (25% each)	<u> </u>	
		Open Book Take	Home Final Exam	30%	
				100%	
	Weekly C	ase Reading			
	Every week students will be provided with case readings allotted for that week. Students will				
	be expected	ed to complete the read	ings and answer 4-5	5 questions p	rior to the next lecture. The
	weekly su	bmission (uploaded to	Canvas) will basica	lly consist of	f answers to these questions.
	<u>Assignme</u>	Assignments:			
	The assig	The assignments require students think critically when applying the concepts learnt in the			
	lectures. Students will be required to write two brief reports on topics covered in the course Due dates will be posted on Canvas.			opics covered in the course.	
	<u>Exams</u> :				
	At the end	l of the course students	will be given a take	e-home exam	n. The exam is to be
	completed	l individually without l	elp of any other stu	dent or resou	arces. The date for the exam
	will be po	sted on Canvas.			
Grading Scale	e Final letter grades are assigned to a student's body of work in this course according to the following scale:			s course according to the	
g ~				C	
	A+ 97%	to 100%	Exceptional		
	A 93%	to 96%	Excellent		
	A- 90%	to 92%	Very Good		
	B+ 87%	to 89%	Good		
	B 83%	to 86%	Acceptable		
	B- 80%	to 82%	Fair		
	C+ 77%	to 79%	Poor		
	C 73%	to 76%	Very Poor		
	C- 70%	to 72%	Minimal Passing		
	R less t	han 70%	Failing		
	The average grade in a required course is expected to be $3.33-3.4$, equivalent to a B+. This expected				
	students ed	irn 90% and above in thi	s course, then all will	receive grade.	s of 'A-' or above. Regardless.
	please real	please realize that a grade of 'B 'is considered an acceptable grade at Carnegie Mellon. Also note			
	that a grad	le of 'C-'is considered a [passing grade.		

	Week	Lecture Topic	Readings
Course Outline	Week 1	Evolution of Information Technology Industry 4.0 Systems Analysis and Design	Mastering the Three Worlds of Information Technology - Andrew McAfee Team New Zealand (A) - Marco Iansiti, Alan MacCormack
	Week 2	Systems Analysis and Design IT Capabilities and Managerial Roles Functional IT Digital Maturity Assessment Maturity Assessment Toolkits	Harley-Davidson Motor Co.: Enterprise Software Selection - Robert D. Austin, Deborah Sole, Mark Cotteleer
	Week 3	Enterprise Systems & Change Managing IT Procurement	Putting the Enterprise into the Enterprise System - by Thomas H. Davenport
	Week 4	Data is the new oil Managing Analytics "Big Data"	Competing on Analytics - Thomas H. Davenport
	Week 5	IT ROI and Governance Enterprise Architecture Open Source	Six IT Decisions Your IT People Shouldn't Make - Jeanne W. Ross, Peter Weill
	Week 6	Open Book Take Home Exam	
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& Expectations	Lectures.

Students are expected to study all content posted on Canvas. Do not hesitate to contact the instructor for any questions or concerns regarding the course.

No student may record or tape any classroom activity without the express written consent of the instructor. If a student believes that he/she has a learning disability and needs to record or tape classroom lectures/activities, he/she should contact the Office of Equal Opportunity Services, Disability Resources to request an appropriate accommodation.

<u>Assignments</u>: All assignments are due on the day specified on Canvas. No assignments submitted after the deadline will be accepted unless permission is granted by the instructor prior to the due date. Each assignment must be typed. <u>No collaboration</u> in any form on assignments is allowed.

Assignments will be graded within a week of submission and grades will be posted on Canvas. If you believe that your assignment was graded incorrectly, you may request that it be re-graded. To do this, turn in your graded assignment in question with an explanation of your arguments. *The entire assignment is subject to re-grading, not just the specific item(s) in question and the grade may go up or down.*

Academic Honesty	All CMU students are expected to follow the ethical guidelines and adhere to the policies as defined in your Program's <u>Student Handbook</u> or in any other source describing such policies as they apply to students at Carnegie Mellon University. These policies and guidelines are available on the CMU web site. Please read them carefully! You will be held accountable for any violations of these policies and guidelines.
and Integrity	Individual assignments must reflect individual effort. I encourage you to seek help from me and the class teaching assistants if you struggle with any assignment. Sharing your assignments with any other student in any form (whether it is a paper document, an electronic document such like a MS Word document, or a document in any other format) is not permitted and will be considered cheating. Any "discussion" between students that results in a similar submission is also not allowed.
	Heinz College policy dictates that all incidents of cheating are reported to the Associate Dean's Office. Additional penalties may be imposed.