DEREE COLLEGE SYLLABUS FOR: BAN 4041 LEAN MANAGEMENT INFORMATION SYSTEMS	
(New course: Spring 2024)	**US CREDITS: 3/0/3**

PREREQUISITES:	None
CATALOG DESCRIPTION:	Study of Lean Management Information Systems (LMIS) practices, guiding principles, techniques and methodologies within business organizational environments, including, management perspectives into the building blocks of transitional journeys embracing lean management in IS-based applications.
RATIONALE:	The course in Lean MIS provides students with the opportunity to be able to identify lean practices, techniques and methodologies to assess and describe solutions to specific business problems. These include the design and development of visual management systems, leading change in corporate end-to-end processes, identifying risk, assessing shift of human behavior that supports value-based flow and establishing targeted measurements. Students will be exposed to case studies that have an impact on business performance from a people-process-technology perspective. They will also recognize how Lean MIS creates opportunities to introduce change and accelerate flow within the modern lean enterprise while addressing challenges and formulating appropriate solutions paths.
LEARNING OUTCOMES:	As a result of taking this course, the student should be able to: 1. Describe lean management business models and their applications within organizations 2. Associate practices, principles and techniques that increase value-based flow in LMIS, including shift in human behavior 3. Assess benefits, challenges and measurements in business information systems 4. Compose appropriate solution paths, aligning visual management systems with business information systems
METHOD OF TEACHING AND LEARNING:	In congruence with the teaching and learning strategy of the college, the following tools are used: • Lectures and class discussions. • Homework assignments. • Office hours held by the instructor to provide further assistance to students. • Use of library facilities for further study and preparation for the exams • Use of the Blackboard course management platform to further support communication, by posting lecture notes, assignment instruction, timely announcements, formative quizzes and online submission of assignments.
ASSESSMENT:	Summative:

First Assessment: Coursework	30%	Implementation of data analysis for business case

	Final Assessment: Written Examination (in class, 2 hours)	70%	Answers to questions with choice

Formative:

Short writing assignments	**0%**
Case study discussions	**0%**

The formative aim to prepare students for the summative assessments.
The First Assessment tests Learning Outcomes 1, 2
The Final Assessment tests Learning Outcomes 2, 3, 4

Students are required to resit failed assessments in this module

(Guidelines and assessment rubrics are distributed on the first day of classes along with the course outline.)

INDICATIVE READING:	**REQUIRED READING:** • Humble J., Molesky J., O'Reilly B., Lean Enterprise: How High Performance Organizations Innovate at Scale, O'Reilly Media, 2020, ISBN: 9781492091776 **RECOMMENDED READING:** • Orzen M, Paider T.A., The Lean IT Field Guide: A Roadmap for Your Transformation, Productivity Press, first edition, 2017, ISBN: 9781138437982. • Kersten M., Project to Product: How Value Stream Networks Will Transform IT and Business: How to Survive and Thrive in the Age of Digital Disruption with the Flow Framework, IT Revolution, illustrated edition, 2019, ISBN: 9781942788393. • Reinertsen D.G., The Principles of Product Development Flow: Second Generation Lean Product Development. Celeritas Pub, 2009, ISBN: 9781935401001. • Doerr J., Measure What Matters: The Simple Idea that Drives 10x Growth, Portfolio Penguin 2018, ISBN: 9780241348482. • Smart J., Sooner Safer Happier: Patterns and Antipatterns for Organizational Agility: Antipatterns and Patterns for Business Agility, IT Revolution, 2020, ISBN: 9781942788911. • Skelton M., Pais M., Team Topologies: Organizing Business and Technology Teams for Fast Flow, IT Revolution, 2019, ISBN: 9781942788812.
INDICATIVE MATERIAL: *(e.g. audiovisual, digital material, etc.)*	**REQUIRED MATERIAL:** Click or tap here to enter text. **RECOMMENDED MATERIAL:** Click or tap here to enter text.
COMMUNICATION REQUIREMENTS:	Use of appropriate academic conventions as applicable in oral and written communications.
SOFTWARE REQUIREMENTS:	MS Office and Blackboard CMS MS Visio

WWW RESOURCES:	Lean Enterprise Institute: https://www.lean.org/ CIO Insight: www.cioinsight.com CIO Magazine - www.cio.com Info World - www.infoworld.com IT Business Edge - www.itbusinessedge.com Managing the Digital Enterprise - www.digitalenterprise.org
INDICATIVE CONTENT:	• Lean approaches in concept-to-cash lifecycles for Management Information Systems applications • Competitive and operational perspectives on the Lean Enterprise, including analysis of both benefits and risk • Applicability of Lean practices, principles and techniques in the digital organization • Lean Thinking in the design and development of visual management systems • Specify continuous value-based flow in customer-segmented populations • Identify and map the value stream • Create flow by continuously identifying and eliminating waste • Respond to customer business demand and pull vs push systems • Pursue perfection through continuous improvement