

THE CYPRUS INTERNATIONAL INSTITUTE OF MANAGEMENT

COURSE UNIT DESCRIPTION

Course Unit Title	DIGITAL BUSINESS TOOLS AND DIGITAL BUSINESS		
	DEVELOPMENT		
Course Unit Code	GD320		
Type of Unit	Core		
Level of Course Unit	First cycle		
Year of Study	First/second year		
Semester	On demand		
Number of ECTS	6 ECTS		
Credits			
Course Unit	The business world is rapidly digitalizing, breaking down industry barriers		
Objectives	and creating new opportunities while destroying long-successful business models. Organisations need to create new business options for the more-connected future of digital ecosystems. Recent research shows that companies that had 50% or more of their revenues from digital ecosystems and understood their end customers better than their average competitor saw 32% higher revenue growth and 27% higher profit margins than their industry averages (Weill & Woerner, 2015). The digital economy is transforming the way people work and the skills they need at work. This represents a major challenge for employers, workers and public authorities. Digital business development refers to an organization's leverage of digital capabilities and aligned strategic, marketing, and sales activities to approach		
	the market and customers, and enable value-creating growth. The main objectives of this course are to foster data-driven culture and equip students with in-depth knowledge of digital business tools. Students will also learn how to develop business models that support a company's strategic objectives, be able to integrate appropriate information and other technologies, both existing and emerging, in developing business processes and business models. Learning in this course will be reinforced by practical application opportunities via case studies.		
Learning Outcomes	On completion of the course the students are expected to be able to:		
	CILO1 Use business process mapping tools, develop new or improved innovative business processes in support of a company's strategic objectives in a socially responsible manner		
	CILO2 Examine the internal capabilities necessary to recognize the potential commercial value of digital technology emerging in the external environment and assess which digital tools should be used for each function of business		
	CILO3 Employ digital business tools, foster data-driven culture, and continuously learn and adopt new technological tools		
	CILO4 Demonstrate in-depth knowledge of new business models and delineate what strategies can companies employ to move from traditional business models to creating a digital ecosystem and invest in knowing their end customers		
Name of Lecturer(s)	Dr Andreas Assiotis		
Mode of delivery	Face to Face		
Prerequisites or corequisites	None		
Content	Introduction to business process mapping tools. CILO 1		
Content	Introduction to disiness process mapping tools. CILO 1		

How to develop new or improved innovative	
business processes from gap analysis through	
process design in support of a company's strategic	
objectives in a socially responsible manner.	
Assessment of the business competitive	CILO 2
environment and the internal capabilities necessary	
to recognize the potential commercial value of	
digital technology emerging in the external	
environment. Assessing which digital tools should	
be used for each function of business.	CH O 2
Categories of digital business tools:	CILO 3
- Business web presence, such as online directory	
listings, websites, and mobile apps	
- Social media for customer engagement, sales,	
marketing, or other business purposes	
- Data analytics to gain customer insights or	
inform business decisions	
- E-commerce and online scheduling capabilities	
via their own websites or third-party platforms	
- Online advertising, including ad banners on	
websites, social media advertising, and search	
engine marketing and optimization	
- Internal productivity tools that improve internal	
business processes, such as cloud-based	
software, video conferencing, and corporate	
social networks.	
Learning specific digital skills such as for example:	CILO 3
- Collaborative tools (messaging, emailing,	
common shared drives, common shared	
spreadsheets) - either Google Sheets or Office	
365 (Online)	
 Payments electronically and associated tools 	
- DocuSign for signing Documents	
- Visualisation tools	
- Big data: Apache Spark and hadoop. This is for	
large scale and distributed computations and	
analytics.	
 Code hosting platform: GitHub 	
 Website development, Mobile app 	
development: Java, Javascript, CSS	
- Artificial intelligence (AI)/Machine	
learning/neural networks: Scikit, PyTorch,	
TensorFlow, Keras. Speech recognition for	
dictation. Natural language computing, e.g.	
automatic translation between languages.	
- Edge computing, IoT	
Lugo companing, to t	
This list may be adjusted to include out on distant	
This list may be adjusted to include other digital	
tools so as to stay up-to-date with technology	
development.	
Fostering tech-driven and data-driven culture.	CILO 3
Continuous professional learning, selecting and	
adopting new technological tools.	
Four business models for the digital era (based on	CILO 4
the MIT article).	
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	Case study analysis and group work.
Recommended or	Lectures, articles, case studies, reports, and other course materials are available via CIIM Moodle.
required reading	available via Chivi Moodie.
	Recommended reading:
	EU Report (2021, March 9). ICT for Work: Digital Skills in the Workplace. https://digital-strategy.ec.europa.eu/en/library/ict-work-digital-skills-workplace
	The Wall Street Journal (2017, June 21). Digital Tools a Boon to Small Business. https://deloitte.wsj.com/cio/2017/06/21/digital-tools-a-boon-to-small-businesses/
	Weill, P. & Woerner, S. (2015, July 1). Thriving in an Increasingly Digital Ecosystem. <i>MIT Sloan Management Review</i> , V. 56 (4). https://hbsp.harvard.edu/product/SMR531-PDF-ENG?Ntt=digital%20business%20models
	Rogers, D. (2016). The Digital Transformation Playbook: Rethink Your Business for the Digital Age. Columbia Business School Publishing.
	John Hopkins Carey Business School - Science of Digital Business Development Initiative. https://carey.jhu.edu/partnerships/science-digital-business-development-initiative
	The Modern Entrepreneur (n.d.) Digital Business Tools. https://www.themodernentrepreneur.com/business-tools/
	Digital tools for business: Find digital tools and software to help you connect with customers and employees (by the Australian Gov't). https://business.gov.au/online/digital-tools-for-business
	10 Essential Tools to Support Your Digital Transformation https://www.lumapps.com/solutions/digital-transformation/digital-transformation-tools/
Dlanned leave!	Lectures; in-class discussion and debates; in-class exercises; problem sets;
Planned learning activities and	team work; case studies, team presentations, interactive online learning via
teaching methods	Moodle (quizzes, assignments, forums)
Assessment methods	Class Participation: 10%
and criteria	Group Work in class: 20% (case studies)
	Final Assignment: 70%
Language of	English
Instruction Work Placement(s)	Not applicable
Work Placement(s)	Not applicable