Digital Resilience Course Syllabus

1. COURSE OBJECTIVES AND METHOD

We are in a period of unprecedented technological change - disruptive technologies such as Internet of Things (IoT), mobile, and big data are already changing how businesses operate, strategize and communicate. As more organizations digitize their processes with these technologies, they are realizing that operating reliable digital services and safeguarding sensitive data are essential to establishing trust with customers and maintaining business continuity.

Any organisation that relies on computer networks, digital information, and the Internet is vulnerable to cyber-attacks. Sabotage, hacking, even uncontrolled use of social media: all these can lead to financial loss, disruption of operations, and, inevitably, reputational damage. The threats are real, and they are changing all the time. Managing these threats is not the sole responsibility of the IT department, it is business leaders' job to understand and oversee organisations' response to cyber/digital threats and attacks.

With an ever-increasing number of security breaches and privacy incidents under the spotlight, consumers' awareness about privacy is also becoming significantly higher. Consumers are starting to act based on how well they believe their privacy is protected by the organizations collecting and processing their personal information. Thus, customer trust is becoming the most important asset of companies doing digital business. The challenge is not only the security incidents or customer expectations, but also the changing regulations. As an example, the new General Data Protection Regulation (GDPR) is effective since May 2018, imposing stricter rules to companies handling personal data. Organizations that fail to provide secure means of data collection and analysis will be facing high fines. Compliance with any data protection regulation affects every department and require input from CMOs, CEOs, and boards, in addition to cyber security teams.

Considering the above-mentioned trends, the objective of this course is to introduce the participants to the fifth dimension of warfare: the cyber arena. This course will help participants build awareness about cyber threats they are likely to experience, the data security & protection compliance challenges they will face, the operational as well as ethical dilemmas they will need to address, and, crucially, what actions to take in case of cyber incident.

Participants will learn about digital technologies and how to create a digital strategy, as well as how to bring these technologies into the organization to create value. This elective covers this gap by bringing cross-disciplinary expertise

together on domains such as cyber security, privacy, digital consumer behaviour, and, compliance and ethics, so that participants are informed about trust building practices in the digital domain. At the end of this course, participants will become intelligent consumers of the advice provided by Chief Security Officers (CSOs) or external consultants. Participants do not need any previous knowledge in IT or cyber security: the focus is on general managers and directors.

The learning objectives of the course are as follows:

- Understand the cyber security threats that organizations are exposed to, and be able to communicate them effectively to the rest of the leadership team or the board,
- Recognize the importance of treating cyber security at the board level,
- Recognize the new consumer trends in privacy and data protection,
- Understand what the data protection regulations mean for businesses,
- Be prepared for the dilemmas in case of an incident, and have strategies for responding.

2. COURSE MATERIALS

This course does not have an assigned textbook. The required readings will be in the form of articles and research reports, both from academic and non-academic resources. These mandatory readings will be delivered to you before the sessions.

Some of the sessions come along with a case or article that you need to read prior to class. To maximize your learning in class I recommend that you give some thought to the discussion questions provided along with the case (if any). All cases will be discussed in class. Additional reading material may be available for each session. None of these readings is mandatory, yet, they are interesting as background material.

3. COURSE OVERVIEW

DATE/TIME	DURATION	TOPIC	PREP MATERIAL
25.03.2020 2 - 5.30 PM CET	2 x 90 min w/ 30 min break	Introduction to the course Cyber Threat Landscape Cybersecurity strategy	None
01.04.2020 2 - 5.30 PM CET	2 x 90 min w/ 30 min break	Cyber incident handling Guest Speaker on "Security aware culture" - TBA	iPremier Case A https://hbsp.harvard.edu/product/601114-PDF-ENG
08.04.2020 2 - 5.30 PM CET	2 x 90 min w/ 30 min break	Privacy & Changing consumer expectations Data protection regulations landscape	Read; https://www.itproportal.com/features/privacy-in- the-age-of-the-customer/
15.04.2020 2 - 5.30 PM CET	2 x 90 min w/ 30 min break	Privacy by Design Guest Speaker on "Governing privacy" - TBA	Read "Customer Data: Designing for Transparency" by Morey et al., HBR 2015
22.04.2020 2 - 5.30 PM CET	2 x 90 min w/ 30 min break	Digital Ethics Guest Speaker on "Algorithm fairness & transparency" - TBA	None
29.04.2020 2 - 5.30 PM CET	2 x 90 min w/ 30 min break	Corporate Digital Responsibility Course wrap-up	Read; Corporate Responsibility in the Digital Era, MIT SMR, M. Wade, April 2020

Guest speakers will be business executives or domain experts in either cybersecurity or data protection regulations and digital ethics.

4. ASSESSMENT

You will be assessed based on the following items;

Assessment	Impact on grade
Multiple choice quiz on cybersecurity	10%
Multiple choice quiz on data protection regulations	10%
Group assignment – Privacy by Design Case Analysis (to be started during Session #7)	30%
Individual written assignment in the form of case analysis, where students will need to apply the knowledge from this course to analyze and answer questions that will come with the case. More information on the case and submission expectations will be announced later on.	50%

5. CONTACTS

The fastest way to reach me is via e-mail. For any questions or concerns you have, or to make an appointment please send an e-mail to oyku.isik@imd.org.