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| QF01/0408-4.0E | Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Cyber Security Department |
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| Study plan No. | 2024/2025 | University Specialization | Cybersecurity |
| Course No. | 0133429 | Course name | Cybersecurity Governance and Risk Compliance |
| Credit Hours | 3 | Prerequisite Co-requisite | Data Analytics |
| Course type | <input type="checkbox"/> MANDATORY UNIVERSITY REQUIREMENT <input type="checkbox"/> UNIVERSITY ELECTIVE REQUIREMENTS | <input type="checkbox"/> FACULTY MANDATORY REQUIREMENT <input type="checkbox"/> Support course family requirements | <input type="checkbox"/> Mandatory requirements <input checked="" type="checkbox"/> Elective requirements |
| Teaching style | <input type="checkbox"/> Full online learning | <input type="checkbox"/> Blended learning | <input checked="" type="checkbox"/> Traditional learning |
| Teaching model | <input type="checkbox"/> 2Synchronous: 1asynchronous | <input checked="" type="checkbox"/> 2 face to face: 1synchronous | <input type="checkbox"/> 3 Traditional |

Faculty member and study divisions information (to be filled in each semester by the subject instructor)

| Name | Academic rank | Office No. | Phone No. | E-mail | |
|-----------------|---------------|------------|--------------------|----------------|----------------|
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| Division number | Time | Place | Number of students | Teaching style | Approved model |
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Brief description

This course focuses on the development and maintenance of effective cybersecurity strategies in *the modern digital landscape*. Students will examine key governance measures, risk management strategies, and decision-making frameworks that help organizations manage risk and ensure compliance with industry regulations. Emphasizing the importance of threat-informed decisions, the course covers various risk management approaches and provides insights into the regulatory environment and compliance frameworks commonly adopted to enhance organizational cybersecurity posture. Key areas of focus include governance structures, policies, and procedures that ensure ongoing compliance with legal, ethical, and industry-specific standards. Students will also gain a deeper understanding of how organizations can align their cybersecurity strategies with global regulations such as GDPR, HIPAA, and NIST frameworks. Through practical examples from industry and government, students will learn how robust governance and compliance measures can protect organizations from threats while meeting their compliance obligations across different sectors

Learning resources

| | |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Course book information (Title, author, date of issue, publisher ... etc.) | <ul style="list-style-type: none"> Governance, Risk, and Compliance Handbook: Technology, Finance, Environmental, and International Guidance and Best Practices*. Hoboken, Tarantino, A. (2008). NJ: John Wiley & Sons. ISBN-13: 978-0-470-55373-2. |
| Supportive learning resources | <ul style="list-style-type: none"> Enterprise Risk Management: From Incentives to Controls (2nd ed.). Hoboken, Lam, J. (2014). NJ: John Wiley & Sons. ISBN-13: |

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| QF01/0408-4.0E | Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Cyber Security Department | | | |
| (Books, databases, periodicals, software, applications, others) | 978-1118413616 ISO 31000:2018 Risk Management – Guidelines, International Organization for Standardization (ISO) <ul style="list-style-type: none"> Corporate Governance: Principles, Policies, and Practices (4th ed.). Tricker, B. (2019). Oxford, UK: Oxford University Press. ISBN-13: 978-0198809869. Society of Corporate Compliance and Ethics (SCCE). (2023). The Complete Compliance and Ethics Manual. Minneapolis, MN: SCCE. ISBN-13: 978-0983375545. | | | |
| Supporting websites | | | | |
| The physical environment for teaching | <input type="checkbox"/> Class room | <input type="checkbox"/> labs | <input type="checkbox"/> Virtual educational platform | <input type="checkbox"/> Others |
| Necessary equipment and software | | | | |
| Supporting people with special needs | | | | |
| For technical support | E-learning and Open Educational Center. Computer Center | | | |

Course learning outcomes (S= Skills, C= Competences K= Knowledge,)

| No. | Course learning outcomes | The associated program learning output code |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Knowledge | | |
| K1 | Explain the legal and privacy aspects of cybersecurity (HIPAA). | MK1 |
| K2 | Analyze the differences in governance, risk, and compliance across finance, government, and critical infrastructure verticals. | MK2 |
| K3 | Assess an organization's maturity against industry and regulatory standards. | MK4 |
| K4 | | MK1 |
| K5 | | MK5 |
| Skills | | |
| S1 | Evaluate and control cybersecurity risks in an organization. | MK4 |
| S2 | Develop cybersecurity program metrics and reporting for effective governance | MK1 |
| Competences | | |
| C1 | Report on cybersecurity governance and program performance to stakeholders. | |
| C2 | Apply industry standards to improve cybersecurity maturity and compliance (e.g., ISO 27001, NIST). | |

Mechanisms for direct evaluation of learning outcomes

| Type of assessment / learning style | Fully electronic learning | Blended learning | Traditional Learning (Theory Learning) | Traditional Learning (Practical Learning) |
|-------------------------------------|---------------------------|------------------|----------------------------------------|-------------------------------------------|
| First exam | 0 | 0 | 0 | 0 |
| Second / midterm exam | %30 | %30 | %30 | %30 |
| Participation / | 0 | 0 | 0 | 0 |

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| QF01/0408-4.0E | Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Cyber Security Department |
|----------------|--------------------------------------------------------------------------------------------------------------|

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| practical applications | | | | |
| Asynchronous interactive activities | %30 | %30 | %30 | %30 |
| final exam | %40 | %40 | %40 | %40 |

Note: Asynchronous interactive activities include tasks such as projects, assignments, research, and group work performed through the virtual platform without direct teacher interaction.

Schedule of simultaneous / face-to-face encounters and their topics

| Week | Subject | Learning Style* | Reference ** |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Course Overview and Introduction <ul style="list-style-type: none"> Introduction to Governance, Risk, and Compliance (GRC) Overview of the course structure, objectives, and assessment Setting expectations and course goals | Lecture | <ul style="list-style-type: none"> Tarantino, A. (2008). <i>Governance, Risk, and Compliance Handbook</i>. Chapter 1, pp. 1–15 (Introduction to GRC). ISO/IEC 27001 Overview: Entire standard summary is available online: https://www.iso.org/isoiec-27001-information-security.html Article: "Why GRC is Critical for Modern Cybersecurity," Harvard Business Review |
| 2 | Governance Frameworks <ul style="list-style-type: none"> Introduction to governance frameworks (e.g., COBIT, ISO, ITIL, COSO) Key principles of governance: accountability, transparency, ethical decision-making | Lecture, learning through projects, learning through problem solving | <ul style="list-style-type: none"> ISACA. (2019). COBIT 2019 Framework: Introduction and Methodology. pp. 5–20 (Framework overview). ISO/IEC. (2013). ISO/IEC 27001: Information Security Management. Sections 4–6 (Governance-related controls). ITIL Foundation Overview: ITIL website, no page numbers: https://www.axelos.com/certifications/itil-certifications COSO. (2017). Enterprise Risk Management: Integrating with Strategy and Performance. pp. 19–30 (Framework principles). |
| 3 | Governance Artefacts <ul style="list-style-type: none"> Overview of key governance artefacts (e.g., policies, procedures, charters, reports) The role of artefacts in decision-making, accountability, and monitoring | Lecture, learning through projects, learning through problem solving | <ul style="list-style-type: none"> ISO/IEC. (2013). ISO/IEC 27002: Code of Practice for Information Security Controls. pp. 22–35 (Policies, processes, and controls). SANS Institute. (2020). Sample Cybersecurity Policies for Organizations: https://www.sans.org/policies/ Tarantino, A. (2008). <i>Governance, Risk, and Compliance Handbook</i>. Chapter 2, pp. 16–28 (Governance artefacts). |
| 4 | Risk Management – Principles and Processes <ul style="list-style-type: none"> Introduction to risk management concepts and | Lecture, learning through projects, learning through problem solving | <ul style="list-style-type: none"> ISO. (2018). ISO 31000: Risk Management – Guidelines. pp. 4–10 (Principles and terminology). NIST. (2018). Cybersecurity Framework |

| QF01/0408-4.0E | Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Cyber Security Department | | |
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| | terminology <ul style="list-style-type: none"> Key risk management processes: identification, assessment, response, and monitoring | | Version 1.1: Identify Function, pp. 8–15. <ul style="list-style-type: none"> Aven, T. (2015). Risk Analysis. Chapter 3, pp. 40–56 (Risk management processes). |
| 5 | Risk Quantification <ul style="list-style-type: none"> Quantitative risk analysis techniques (e.g., probability-impact matrix, Monte Carlo simulations) Tools for assessing and measuring risks (e.g., risk scoring, heat maps) | Lecture, learning through projects, learning through problem solving | <ul style="list-style-type: none"> NIST. (2012). NIST Special Publication 800-30: Guide for Conducting Risk Assessments. Sections 3.4 and 4.2, pp. 18–25 (Quantification methods). Hubbard, D. W. (2009). The Failure of Risk Management: Why It's Broken and How to Fix It. Chapter 5, pp. 97–112 (Heat maps and probability-impact models). Article: "Using Risk Heat Maps for Effective Decision-Making," ISACA Journal (online resource; no page numbers). |
| 6 | Compliance – Industry Overview <ul style="list-style-type: none"> Overview of key regulatory frameworks (e.g., GDPR, SOX, PCI-DSS, FISMA) The role of compliance in risk management and governance | Lecture, learning through projects, learning through problem solving | <ul style="list-style-type: none"> EU GDPR Portal: Articles 5–6 (Principles of GDPR): https://gdpr-info.eu/ PCI DSS Standards: Overview, pp. 4–10: https://www.pcisecuritystandards.org/ FISMA Implementation Project: Key requirements overview: https://csrc.nist.gov/projects/risk-management/about-fisma Calder, A. (2016). EU GDPR: A Pocket Guide. Chapter 2, pp. 20–32 (Compliance overview). |
| 7 | Compliance – Regulatory Frameworks <ul style="list-style-type: none"> Overview of key regulatory frameworks (e.g., GDPR, SOX, PCI-DSS, FISMA) The role of compliance in risk management and governance | Lecture, learning through projects, learning through problem solving | <ul style="list-style-type: none"> SOX Compliance Overview: Key requirements, pp. 15–22: https://www.soxlaw.com/ Article: "The Role of PCI DSS in Securing Payment Data," Forbes (online resource; no page numbers). Tarantino, A. (2008). Governance, Risk, and Compliance Handbook. Chapter 8, pp. 78–95 (Overview of regulatory frameworks). |
| 8 | Legal Aspects and Privacy <ul style="list-style-type: none"> Overview of legal considerations in GRC: Contracts, liability, intellectual property Privacy laws and regulations (e.g., GDPR, CCPA, HIPAA) | Lecture, learning through projects, learning through problem solving | <ul style="list-style-type: none"> GDPR Overview: Articles 12–22 (Privacy rights and compliance): https://gdpr-info.eu/ California Consumer Privacy Act (CCPA): Key rights under CCPA: https://oag.ca.gov/privacy/ccpa Moerel, L. (2014). Big Data Protection: Challenges and Opportunities. Chapter 4, pp. 60–75 (Legal implications of data processing). HIPAA Compliance Guide: Administrative safeguards, Section 164.308: https://www.hhs.gov/hipaa/index.html |
| 9 | GRC in Finance <ul style="list-style-type: none"> Role of GRC in the financial services industry | Lecture, learning through projects, learning through | <ul style="list-style-type: none"> Basel III Overview: Principles of Basel III, pp. 5–15: https://www.bis.org/bcbs/basel3.htm |

| QF01/0408-4.0E | | Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Cyber Security Department | |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> Regulatory requirements in finance (e.g., Basel III, Dodd-Frank, MiFID II) | problem solving | <ul style="list-style-type: none"> Dodd-Frank Act Summary: Key compliance mandates, pp. 12–18: https://www.congress.gov/bill/111th-congress/house-bill/4173 Lam, J. (2014). Enterprise Risk Management: From Incentives to Controls. Chapter 6, pp. 120–135 (GRC in financial institutions). |
| 10 | GRC in Government <ul style="list-style-type: none"> GRC frameworks used in government agencies Public sector accountability, transparency, and risk management | Lecture, learning through projects, learning through problem solving | <ul style="list-style-type: none"> COSO. (2017). Enterprise Risk Management: Integrating with Strategy and Performance. Public sector applications, pp. 90–104. Article: "Risk Management in Government Agencies," Public Administration Review (online resource; no page numbers). FISMA Compliance Guide: Key requirements for government agencies, pp. 20–32: https://www.cisa.gov/federal-information-security-modernization-act |
| 11 | GRC in Critical Infrastructure <ul style="list-style-type: none"> The importance of GRC in critical infrastructure sectors (e.g., energy, transportation, utilities) Industry-specific risks and governance challenges | Lecture, learning through projects, learning through problem solving | <ul style="list-style-type: none"> NIST. (2018). NIST Special Publication 800-82: Guide to Industrial Control Systems Security. Chapters 2–3, pp. 25–48. Article: "The Importance of GRC in Critical Infrastructure Sectors," ISACA Journal (online resource; no page numbers). Tarantino, A. (2008). Governance, Risk, and Compliance Handbook. Chapter 12, pp. 140–155 (Critical infrastructure governance). |
| 12 | Integration of GRC Components <ul style="list-style-type: none"> How to integrate governance, risk, and compliance into a cohesive strategy Best practices for alignment across all GRC functions | Lecture, learning through projects, learning through problem solving | <ul style="list-style-type: none"> ISACA. (2019). COBIT 2019 Framework: Implementation Guide. pp. 65–80 (Integration best practices). Article: "Integrating Governance, Risk, and Compliance for Business Success," Gartner Insights (online resource; no page numbers). Lam, J. (2014). Enterprise Risk Management: From Incentives to Controls. Chapter 10, pp. 160–175 (Integrated frameworks). |
| 13 | Emerging Trends in GRC <ul style="list-style-type: none"> The future of GRC: Technology, automation, AI, and data analytics Evolving regulatory landscapes and their impact on GRC | Lecture, learning through projects, learning through problem solving | <ul style="list-style-type: none"> Article: "The Future of GRC: AI and Automation," Harvard Business Review (online resource; no page numbers). Tarantino, A. (2008). Governance, Risk, and Compliance Handbook. Chapter 14, pp. 175–190 (Emerging technologies in GRC). NIST. (2020). NIST Special Publication 800-207: Zero Trust Architecture. pp. 5–15. |
| 14 | Course Review and Final Exam <ul style="list-style-type: none"> Review of all course topics and key takeaways | Lecture, learning through projects, learning through | <ul style="list-style-type: none"> Tarantino, A. (2008). Governance, Risk, and Compliance Handbook. Comprehensive review, pp. 1–190 (all |

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| QF01/0408-4.0E | Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Cyber Security Department |
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| | ○ Final Q&A session and student feedback | problem solving | applicable chapters). • ISO. (2018). ISO 31000: Risk Management – Guidelines. Entire document, focus on pp. 4–25. • ISACA. (2019). COBIT 2019 Framework: Implementation Guide. Comprehensive review, pp. 5–80. |
| 15 | Discussion | participatory learning | |
| 16 | Final Exam | | |

* Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.

** Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.

This activities was designed using the **Project-Based Learning (PBL)**

Project 1: GDPR Compliance Gap Analysis & Corrective Action Plan

| Task / Activity | Reference | Expected Results |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conduct a compliance audit for a fictional EU-based fintech startup. Use the official GDPR Article Checklist to evaluate their data handling policies. Analyze the Equifax breach case study to identify similar systemic failures. | Official GDPR Text (Articles 5, 15-22, 32-34), ICO PIA Guidelines, Equifax 2017 Breach Report | A gap analysis report detailing policy violations, a prioritized corrective action plan mapped to GDPR articles, and a risk mitigation strategy for identified failures. |

Project 2: Privacy Impact Assessment for a Data-Driven E-Commerce Platform

| Task / Activity | Reference | Expected Results |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Perform a full PIA for "ShopGlobal," a platform using AI for personalized ads. Map data flows, assess risks for California (CCPA) and EU (GDPR) customers, and design a user consent dashboard and data retention policy. | NIST PIA Framework, CCPA Compliance Guide, EDPS PIA Template | A completed PIA document with data flow diagrams, a dual-compliance matrix (GDPR/CCPA), and prototype designs for privacy notices and a user data management portal. |

Schedule of asynchronous interactive activities (in the case of e-learning and blended learning)

| Week | Task / activity | Reference | Expected results |
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| QF01/0408-4.0E | | Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Cyber Security Department | |
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| Week | Task / activity | Reference | Expected results |
| 1 | <p>Cybersecurity Governance Case Study Discussion</p> <ul style="list-style-type: none"> Objective: Introduce students to the real-world importance of GRC in cybersecurity. Task: <ul style="list-style-type: none"> Provide a short case study (e.g., a recent cybersecurity breach involving governance failures). Students work in groups to identify governance, risk management, and compliance failures in the scenario. Discuss as a class how better GRC practices could have mitigated the issue. | <ul style="list-style-type: none"> Tarantino, A. (2008). <i>Governance, Risk, and Compliance Handbook</i>. Chapter 1: Introduction to GRC. Article: "Target's 2013 Data Breach: The Failure of Governance and Risk Management." ISO 27001 overview: https://www.iso.org/isoiec-27001-information-security.html | <p>Deliverable: Group insights presented verbally during class</p> |
| 2 | <p>Governance Framework Analysis</p> <ul style="list-style-type: none"> Objective: Compare and evaluate governance frameworks for cybersecurity. Task: <ul style="list-style-type: none"> Groups analyze governance frameworks (e.g., COBIT, ISO 27001, ITIL). Highlight differences in principles, scope, and applicability. | <ul style="list-style-type: none"> ISACA. (2019). COBIT 2019 Framework: Introduction and Methodology. ISO/IEC. (2013). ISO/IEC 27001: Information Security Management. ITIL Foundation: Overview of ITIL Principles and Practices: https://www.axelos.com/certifications/itil-certifications | <p>Deliverable: A comparative table and a brief group presentation.</p> |
| 3 | <p>Drafting a Cybersecurity Policy</p> <ul style="list-style-type: none"> Objective: Learn to create governance artefacts. Task: <ul style="list-style-type: none"> Provide a scenario (e.g., drafting a password policy). Students draft a policy document, including purpose, scope, roles, and enforcement. | <ul style="list-style-type: none"> SANS Institute. (2020). Sample Cybersecurity Policies for Organizations: https://www.sans.org/policies/ ISO/IEC. (2013). ISO/IEC 27002: Code of Practice for Information Security Controls. | <p>Deliverable: A completed cybersecurity policy for instructor feedback</p> |
| 4 | <p>Risk Identification Workshop</p> <ul style="list-style-type: none"> Objective: Identify and categorize risks in an organizational context. Task: <ul style="list-style-type: none"> Analyze a case study (e.g., a hospital's IT system vulnerable to ransomware). Students list risks, categorize | <ul style="list-style-type: none"> ISO. (2018). ISO 31000: Risk Management – Guidelines. NIST. (2018). Cybersecurity Framework Version 1.1: Identify Function. | <p>Deliverable: A risk categorization and prioritization report.</p> |

| QF01/0408-4.0E | | Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Cyber Security Department | |
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| Week | Task / activity | Reference | Expected results |
| | them, and prioritize based on likelihood and impact. | | |
| 5 | Creating a Risk Heat Map <ul style="list-style-type: none"> Objective: Quantify risks and represent them visually. Task: <ul style="list-style-type: none"> Students calculate risk scores and create a heat map. | <ul style="list-style-type: none"> NIST. (2018). NIST Special Publication 800-30: Guide for Conducting Risk Assessments. Book: Hubbard, D. W. (2009). The Failure of Risk Management: Why It's Broken and How to Fix It. | Deliverable: A completed heat map with an explanation of findings. |
| 6 | Compliance Checklist Analysis <ul style="list-style-type: none"> Objective: Evaluate compliance with industry standards. Task: <ul style="list-style-type: none"> Provide a checklist (e.g., GDPR requirements). Students assess a fictional company's policies against the checklist and identify gaps. | <ul style="list-style-type: none"> EU GDPR Portal: https://gdpr-info.eu/ PCI DSS Standards: https://www.pcisecuritystandards.org/ Book: Calder, A. (2016). <i>EU GDPR: A Pocket Guide</i>. | Deliverable: A compliance gap analysis report with recommendations |
| 7 | Regulatory Failure Case Study <ul style="list-style-type: none"> Objective: Analyze a real-world compliance failure to extract lessons learned. Task: <ul style="list-style-type: none"> Provide a detailed case study (e.g., Equifax's 2017 data breach). Students analyze causes, consequences, and propose corrective actions. | <ul style="list-style-type: none"> Case Study: "The Equifax Data Breach: What Went Wrong?" Harvard Business Review. SOX Compliance Overview: https://www.soxlaw.com/ Book: Lam, J. (2014). <i>Enterprise Risk Management: From Incentives to Controls</i> | Deliverable: A report summarizing findings and recommendations. |
| 8 | Privacy Impact Assessment (PIA) <ul style="list-style-type: none"> Objective: Assess the impact of data collection practices on privacy. Task: <ul style="list-style-type: none"> Students complete a Privacy Impact Assessment (PIA) for a fictional e-commerce platform. Propose strategies for ensuring compliance with privacy regulations (e.g., GDPR, CCPA). | <ul style="list-style-type: none"> GDPR Overview: https://gdpr-info.eu/ California Consumer Privacy Act (CCPA): https://oag.ca.gov/privacy/ccpa Book: Moerel, L. (2014). <i>Big Data Protection: Challenges and Opportunities</i>. | Deliverable: A completed PIA template and recommendations. |