



### **Course Description**

#### **MAN4719 | Challenges in the Digital Supply Chain | 4.00 credits**

Through this course, students will analyze the social, ethical, and legal issues in supply chain management. Students will examine the importance of fairness, accountability, and transparency of data policies in various supply chain operations. Various issues governing the collection, storage, access, use, and sharing of data will also be explored. Prerequisite: MAN3506, (QMB2100 or STA2023).

### **Course Competencies:**

**Competency 1:** The students will demonstrate ethical use of data management in the informational supply chain by:

1. Examining the three philosophical frameworks of moral reasoning in business (utilitarianism, deontology, and virtue ethics)
2. Understanding business ethics as a form of applied ethics
3. Appraising the relationship between the principle of legal compliance and conformity with moral standards within commerce
4. Assessing the six business management principles of data ethics
5. Reviewing the implications of open data and cloud technology for the supply chain

**Competency 2:** The student will develop fluency in the technical, ethical, and legal terms in commerce and supply chains by:

1. Contrasting the role of moral agency and responsibility for business stakeholders
2. Assessing complexities of ethics in the information age compared to traditional ethics in business enterprises
3. Determining the role of transparency in data management and business ethics.
4. Evaluating the everyday challenges of implementing ethical architecture in supply chain operations
5. Comparing the different organizational perspectives of ethics under the Zachman framework
6. Critiquing the Zachman framework and its limitations as an enterprise ontology

**Competency 3:** The student will explore ethical issues that affect various functions in the supply chain by:

1. Examining sustainability in transportation, distribution, and warehousing
2. Analyzing global issues related to manufacturing and procurement
3. Examining automation, workplace safety, and other labor issues in manufacturing and distribution
4. Analyzing product recalls and waste streams in reverse logistics

**Competency 4:** The student will explore the impact of data collection on privacy in a supply chain environment by:

1. Examining the legal and ethical challenges of data management in the supply chain
2. Evaluating the different models of supply chain information strategy
3. Determining how ethical effects can be measured in supply chain affairs

**Competency 5:** The student will build data governance standards for the supply chain needs in organizations by:

1. Reviewing corporate policies around the use of data for profit
2. Aligning organizational ethical frameworks with existing information management practices
3. Assessing the role of external business stakeholders in the information management process
4. Examining how the assessment takes ethical considerations of the stakeholders for corporations
5. Identifying the emerging industry requires considering data ethics and governance
6. Evaluating business/supply chain legislation and compliance that governs data ethics

**Competency 6:** The student will utilize fairness, accountability, and transparency in the handling of data from a management perspective by:

1. Introducing the segregation between moralism and institutionalism for the organizations
2. Exploring the creation of an ethical impact assessment?
3. Appraising the ethical impact assessment and its applications during strategic decision-making

4. Evaluating the scenarios where the assessment is practical for identifying organizational ethical issues
5. Assessing business and supply chain risk prior to policy development
6. Evaluating different supply chain organizations' ethical data management cultures
7. Assessing how culture can be captured in a corporate policy code of ethics documents or other policies.
8. Exploring the different supply chain organizations' social consequences of unethical data management cultures
9. Assessing corporate policies that govern data management

**Learning Outcomes:**

- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Demonstrate knowledge of ethical thinking and its application to issues in society
- Use computer and emerging technologies effectively