CH08 - Data Governance

หลักสูตร วท.ม.เทคโนโลยีธุรกิจดิจิทัล มหาวิทยาลัยราชภัฏจันทรเกษม

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Data Governance

CH08 focuses on the critical role of data governance in ensuring the quality, security, and effective management of data within an organization. It highlights the principles, frameworks, and practices necessary to establish robust data governance.

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Introduction to Data Governance

- **Definition**: Data governance is the collection of processes, policies, and standards that ensure the effective and efficient use of information.

- **Importance**: It ensures data accuracy, consistency, security, and availability, supporting decision-making and regulatory compliance.

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Principles of Data Governance

- **Accountability**: Assigning responsibilities to data stewards and stakeholders for managing data assets.
- **Transparency**: Clear documentation and communication of data policies and practices.
- **Integrity**: Maintaining data accuracy and consistency throughout its lifecycle.
- **Protection**: Ensuring data security and privacy to protect sensitive information.

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Data Governance Framework

- **Components**: Policies, procedures, roles, responsibilities, and technologies that support data governance.
- **Implementation**: Steps to develop and implement a data governance framework tailored to the organization's needs.

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Roles and Responsibilities
- **Data Stewards**: Individuals responsible for managing data assets and ensuring compliance with data governance policies.
- **Data Governance Council**: A group of senior stakeholders overseeing data governance initiatives and resolving conflicts.
- **IT and Business Collaboration**: Ensuring cooperation between IT and business units to align data governance with business goals.

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Data Quality Management

- **Data Quality Dimensions**: Accuracy, completeness, consistency, timeliness, and reliability.
- **Processes**: Data profiling, data cleansing, and ongoing monitoring to maintain high data quality standards.

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Data Security and Privacy
- **Regulatory Compliance**: Ensuring compliance with laws and regulations such as GDPR, HIPAA, and CCPA.
- **Security Measures**: Implementing access controls, encryption, and regular security audits to protect data.

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Benefits of Data Governance
- **Improved Decision-Making**: Ensuring reliable and accurate data for better business insights.
- **Risk Mitigation**: Reducing the risk of data breaches and regulatory fines.
- **Operational Efficiency**: Streamlining data management processes and reducing redundancy.

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Challenges in Data Governance
- **Cultural Resistance**: Overcoming resistance to change within the organization.
- **Resource Allocation**: Ensuring sufficient resources and budget for data governance initiatives.
- **Continuous Improvement**: Adapting and evolving data governance practices to meet changing business needs and technologies.

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Conclusion

CH08 emphasizes the importance of data governance in maintaining high-quality, secure, and reliable data. By implementing a robust data governance framework, organizations can achieve better decision-making, compliance, and operational efficiency.

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