

SECURITY GOVERNANCE AND RISK MANAGEMENT

Course Code	23IT6402	Year	II	Semester	II
Course Category	HONORS	Branch	IT	Course Type	THEORY
Credits	3	L – T – P	3-0-0	Prerequisites	--
Continuous Evaluation:	30	Semester End Evaluation:	70	Total Marks:	100

Course Outcomes		
Upon successful completion of the course, the student will be able to		
CO1	Assess current security governance, risk management states and metrics.	L2
CO2	Apply governance frameworks.	L3
CO3	Develop and implement risk management strategies.	L3
CO4	Use metrics to measure, monitor, and continuously improve security performance.	L3

Syllabus		
Unit No	Contents	Mapped CO
I	Governance Overview: Origins of Governance, Governance Definition, Information Security Governance, Six Outcomes of Effective Security Governance, Benefits of Good Governance Roles and Responsibilities: The Board of Directors, Executive Management, Security Steering Committee, The CISO Strategic Metrics: Governance Objectives	CO1
II	Information Security Outcomes: Strategic Alignment, Risk Management, Business Process Assurance/Convergence, Value Delivery, Resource Management, Resource Management Security Governance Objectives: Security Architecture, CobiT, Capability Maturity Model	CO1, CO2
III	Risk Management Objectives: Risk Management Responsibilities, Managing Risk Appropriately, Determining Risk Management Objectives Current State: Current State of Security, Current State of Risk Management, Gap Analysis—Unmitigated Risk	CO1, CO3
IV	Developing a Security Strategy: Failures of Strategy, Attributes of a Good Security, Strategy Resources, Strategy Constraints, Sample Strategy Development Implementing Strategy: Action Plan Intermediate Goals, Action Plan Metrics, Reengineering, Inadequate Performance, Elements of Strategy	CO1, CO3

V	SecurityProgramDevelopmentMetrics: InformationSecurityProgramDevelopmentMetrics,ProgramDevelopmentOperationalMetrics Information Security Management Metrics: Management Metrics, Security Management Decision Support Metrics, CISO Decisions, Information SecurityOperationalMetrics	CO1 CO4
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Learning Resources	
TextBooks	
1.	Information Security Governance A Practical Development and Implementation Approach KragBrotby, WileyAJohnWiley& Sons,Inc.,Publication
References	
1.	Alan Calder, Steve G.Watkins, "Information Security Risk Management for ISO27001/ISO27002",itgp,2010.
e-ResourcesandotherDigitalMaterial	
1.	https://www.youtube.com/watch?v=0yWt82rIC3o
2.	https://www.coursera.org/lecture/cyber-security-domain/information-security-governance-and-risk-management-FLyKS

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