

SECURITY GOVERNANCE RISK MANAGEMENT

(Honors)

Course Code		Year	III	Semester	I
Course Category	Honors	Branch	IT	Course Type	Theory
Credits	4	L-T-P	4-0-0	Prerequisites	Cyber Security/Network Security
Continuous Internal Evaluation :	30	Semester End Evaluation:	70	Total Marks:	100

Course Outcomes		
Upon successful completion of the course, the student will be able to:		
CO1	Understand and determine the objectives necessary to achieve those outcomes	L2
CO2	Perform a comprehensive gap analysis of the requirements to move from the current state to the desired state of security	L3
CO3	Develop a strategy and roadmap to address the gaps, using available resources within existing constraints	L3
CO4	Create metrics and monitoring processes to Measure progress and guide implementation	L3

Syllabus		
Unit No	Contents	Mapped CO
I	<p>Governance Overview: Origins of Governance, Governance Definition, Information Security Governance, Six Outcomes of Effective Security Governance, Benefits of Good Governance</p> <p>Roles and Responsibilities: The Board of Directors, Executive Management, Security Steering Committee, The CISO</p> <p>Strategic Metrics: Governance Objectives</p>	CO1,CO2
II	<p>Information Security Outcomes: Strategic Alignment, Risk Management, Business Process Assurance/Convergence, Value Delivery, Resource Management, Resource Management</p> <p>Security Governance Objectives: Security Architecture, CobiT, Capability Maturity Model</p>	CO1, CO3
III	<p>Risk Management Objectives: Risk Management Responsibilities, Managing Risk Appropriately, Determining Risk Management Objectives</p> <p>Current State: Current State of Security, Current State of Risk Management, Gap Analysis—Unmitigated Risk</p> <p>Practical Technical Scenarios(Ptss), DrivesCobit5, Framework Principles.</p>	CO1,CO2

IV	<p>Developing a Security Strategy: Failures of Strategy, Attributes of a Good Security, Strategy Resources, Strategy Constraints, Sample Strategy Development</p> <p>Implementing Strategy: Action Plan Intermediate Goals , Action Plan Metrics, Reengineering, Inadequate Performance, Elements of Strategy</p>	CO1,CO4
V	<p>Security Program Development Metrics: Information Security Program Development Metrics, Program Development Operational Metrics</p> <p>Information Security Management Metrics: Management Metrics, Security Management Decision Support Metrics, CISO Decisions, Information Security Operational Metrics</p>	CO1,CO4

Learning Resources	
Text Books	
1.	Information Security Governance A Practical Development and Implementation Approach KragBrotby, Wiley A John Wiley & Sons, Inc., Publication
References	
1.	Alan Calder, Steve G.Watkins, “Information Security Risk Management for ISO27001/ISO27002”, itgp, 2010.
e-Resources and other Digital Material	
EBOOKS	
1.	https://www.youtube.com/watch?v=0yWt82rIC3o
2.	https://www.coursera.org/lecture/cyber-security-domain/information-security-governance-and-risk-management-FLyKS