Indian Institute of Management Indore

Executive Post Graduate Program in E-GOVERNANCE

2013-14

Title of the Course: Cyber Security & e-Governance   **Credits: 03**
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COURSE DESCRIPTION

This course on Cyber Security & e-Governance will identify various aspects of cyber security, including regulatory framework.

COURSE OBJECTIVES

The success of e-Governance can be seen in the form of Electronic Service Delivery (ESD) models, which are being increasingly adopted by the Central Government &various State Governments. These ESD Models have become a kind of "Critical Information Infrastructure" (CII). It is thus imperative that the e-Governance professional should know about the latest developments in the field of cyber security & the risks involved.

This course will help the learner to develop a unique knowledge base in framing mission critical policies for ESD models. Success of any e-Governance or M-governance platform depends on having robust cyber security architecture!

PEDAGOGY
The pedagogy will be predominantly lectures and classroom discussions. Cyber security planning to protect the e-Governance domain will be central theme of this course. Cyber security related policies, notifications and guidelines will be discussed to reinforce understanding of concepts.

EVALUATION

Component I: 30%
Component II: 30%
Component III: 40%

Every component will have: (a) class assignment, (b) home assignment and (c) Group presentations

SCHEDULE OF SESSIONS:

Module 1: Basic cyber security concepts
Module Objective(s): In this module, participants will get to know about basics of cyber security. The idea will be to provide details about cyber security planning and the regulatory framework.

Sessions 1&2 Basic components of cyber security
Reading Lecture notes of the instructor

Session 3 Regulatory framework governing cyber security in India
Reading Lecture notes of the instructor
Reading Chap 21, pp.239-248 [SV]

Session 4: Group Presentations (I)

Module 2: Cyber-crimes related to e-Governance
Module objective: To understand how cyber-crimes will be affecting e-Governance and Electronic Service Delivery (ESD) platforms of the Central and State Governments and what sort of policy initiatives should be taken into consideration to prevent such cyber-attacks.

Session 5 & 6 Cyber-crimes & Electronic Service Delivery Models
Reading Lecture notes of the instructor
Reading Chap 4, pp.46-58 [SV]

Session 7 Regulating cyber-crimes in e-Governance space
Reading Lecture notes of the instructor
Reading Chap 12-15, pp.160-187 [SV]

Session 8: Group Presentations (II)

Module 3 Cyber Security & e-Governance
Module objective: To understand the value of creating Critical Information Infrastructure Plan (CIIP) both at the Central and State Government levels. Further, to understand the benefit of developing reasonable security policy and data protection policies to protect e-Governance platforms. There will be a discussion on National Cyber security policy and role of CERT-In (Computer Emergency Response Team – India). Details about encryption standards, surveillance, monitoring, etc. as provided under the legal framework will be highlighted.

Session 9, 10 & 11: e-Governance as Critical Information Infrastructure
Reading Lecture notes of the instructor
Case Studies/Notifications/Policies on CII (issued by various State Governments)

Session 12, 13 & 14: e-Governance & Reasonable Security Practices and Data Protection
Reading Lecture notes of the instructor
Case Studies/Notifications/Policies

Session 15: Group Presentations (III)

Text Books

Sharma, Vakul: Information Technology – Law & Practice, (3rd Ed.,2013 *Seventh Reprint*), Universal Law Publishing [SV]