Indian Institute of Management Indore

Executive Post Graduate Program in E-GOVERNANCE

2013-14

Title of the Course: Identity Management   **Credits: 4**

Name of the Faculty member: Nidhin Varghese, Sujan Parthasaradhi, SashidharDhanturti

Email: nidhin@nisg.org, nidhin79@yahoo.co.in, sujansaradhi@gmail.com,

sashidanturti@hotmail.com   **Telephone: +91-9948393996**

COURSE DESCRIPTION

The course covers biometrics, applicability of biometrics, best practices, and applicability of biometrics in government programs as an identification mechanism. The course also covers Smart Cards and RFID technology and applicability of these technologies in Identity Management. The course shall also focus on India's UIDAI project, Aadhaar enrolments, mechanisms to integrate Aadhaar into beneficiary databases and how a unique identifier can help Government deliver citizen service delivery schemes like direct cash transfer.

COURSE OBJECTIVES

The basic objective of this course is to gain an understanding of various tools and technology available and commonly used to ensure Identity. This course will expose the participants to Biometrics, Smart Card, RFID technologies and their role in the Identity Management Space and comprehend Citizen Identity Management in different countries and several applications, like the Aadhaar, Border control and Banking. The course shall also provide participants an understanding on how to effectively address key factors which are responsible for the success of biometric system performance. The course shall also focus on the importance of proper design (with a reliable technology) in the implementation of large-scale biometric identity management projects to ensure delivery of reliable performance with enhanced security, convenience and meaningful ROI.

The course shall also introduce participants to the UIDAI, UID Program, Aadhaar Enrolment, Aadhaar Authentication and use of Aadhaar in Service Delivery to Residents, Direct Cast Transfer schemes and Aadhaar Seeding. This will help participants on understanding how to incorporate the UID authentication mechanism to establish identity of beneficiaries in an e-Gov Project and integration of Aadhaar into beneficiary databases.

PEDAGOGY

The pedagogy will be **Lecture cum presentation and case studies**

EVALUATION

End Term Exam (Individual) – 50%
Class Participation (Individual) – 20%
Group Presentations – 30%

SCHEDULE OF SESSIONS:

Module 1:   Biometrics and application of Biometrics in Identity Programs

Module Objective(s): Understanding of biometrics, threats, best practices and application of biometrics in Identity Programs

Sessions 1   Introduction to Biometrics
Topics Covered: What is biometrics, Why biometric ID is important, Types of biometric modalities and technologies and Biometric Technology Analysis

Reading   Instructor's notes/Slides

Sessions 2   Threats, Biometric Spoofing and Best Practices

Reading   Instructor's notes/Slides

Sessions 3   Biometric Applications, Products and Business Case for Biometrics
Topics Covered: Evaluation of biometric products, Biometric Application Analysis and Business Case of biometrics in commercial/green field Markets

Reading   Instructor's notes/Slides

Sessions 4   Application of Biometrics in Identity Management Programs
Topics Covered: Importance of biometrics in underprivileged populations, Financial Inclusion, Border Control system, Analysis of RFP/Tenders

Reading   Instructor's notes/Slides and Case Study

Sessions 5   Case studies of Large Scale biometric authentication projects

Reading   Instructor's notes/slides + Case Study

Sessions 6   Group Presentation/Discussion and Assessment

Module 2:   Smart Cards and RFID Applications

Module Objective(s): In this module, the participants will be made aware of the Smart Card and RFID Technologies, their applications in practical scenario followed by Case Studies

Sessions 7   Introduction to Smart Cards and RFID
Topics Covered: Evolution, Technology, Usage, General Applications

Reading   Generic material on Smart Cards/Instructor's notes/slides

Sessions 8 & 9   Case Studies on Applications RFID Cards

Reading   Instructor's notes/slides

Case Study   Guided Case Study

Sessions 10   Case Studies on Applications RFID Cards followed by a quiz

Reading   Instructor's notes/slides

Case Study   Guided Case Study

Module 3:   Aadhaar Program, Usage of Aadhaar and Aadhaar Based Service Delivery

Module Objective(s): In this module, the participants will be introduced to the concept of UID number or Aadhaar, applications of Aadhaar, Aadhaar Authentication, Aadhaar Based Service Delivery and how Aadhaar can help Government transfer subsidies directly to beneficiaries.

Sessions 11&12 Introduction to Aadhaar Program
Topics Covered: What is a Unique ID, Identity Management in Government, Need for UID, About UIDAI, Approach and Strategy, Comparison of UID Program vs. other ID programs worldwide, CIDR and various applications

Reading   Instructor's notes/Slides

Sessions 13   UIDAI Enrolment Process and Ecosystem
Topics Covered: UIDAI Enrolment, Empanelment Scheme and Enrolment Ecosystem

Reading   Instructor's notes/Slides and Video on Enrolment

Sessions 14 and 15 Aadhaar Authentication, Pilots

Topics Covered: Salient Features of Aadhaar Authentication, Operating Model for Authentication, Uses of Aadhaar Authentication and advantages, Roles of various actors, Aadhaar in LPG delivery, MicroATM

Reading   Instructor's notes/Slides and
Case Study   Video Supported Case Study on Financial Inclusion

Sessions 16 and 17 Authentication Framework, Aadhaar Seeding Frameworks and Mechanism

Topics Covered: Authentication Framework, Integration of AUA databases with Aadhaar (Seeding)

Reading   Instructor's notes/Slides

Sessions 18   Aadhaar Enabled Service Delivery, Direct Cash Transfer

Topics Covered: Aadhaar Enabled Service Delivery, Aadhaar Enabled Payments Bridge, Direct Cash Transfer

Reading   Instructor's notes/Slides

Sessions 19   Group Case Study and Group Presentation

Case: How to integrate and enable Aadhaar Authentication with participant's existing Govt. department functioning for enhancing efficiency and providing better service delivery to citizens

Sessions 20   Assessment Test – Final and General Discussions on Aadhaar Project

Reference Material

1. Please refer to the UIDAI website http://uidai.gov.in/ for understanding UIDAI Authentication and its applications. In particular, participants may read through the following material:

    a. http://uidai.gov.in/what-is-aadhaar-number.html

    b. http://uidai.gov.in/registrar-link-1.html

    c. http://uidai.gov.in/authentication-overview.html