



The Palestinian E-Government Academy

Training Objective

One of the most important goals for the Academy is to bridge the knowledge gap and empower the Palestinian society with the know-how for implementing and deploying electronic and integrated services, in particular e-government services, which are a national priority.

The training aims at capacity building (i.e., lifelong learning) in three main areas (interoperability, security, and legal informatics), which are the main challenges when implementing e-services and e-Government.

Participants will gain sufficient knowledge of the underlying technologies and most up to date information on e-Government in addition to the international and national experience in this area.

Partners



Grant Holder Institution: Birzeit University

Project Info

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Contact

Birzeit University
P.O. Box 14 Birzeit, Palestine
Tel: +970 (2) 298 2917
Fax: +970 (2) 298 2125
Web: www.egovacademy.ps

Dr. Mustafa Jarrar
Project Coordinator
mjarrar@birzeit.edu

Miss. Majd Ashhab
Project Manager
mashhab@birzeit.edu



Professional Training Tutorials

أكاديمية الحكومة الإلكترونية الفلسطينية



Professional Training Program

The Academy provides training that includes six professional training tutorials in the fields of interoperability, security and legal informatics. Each tutorial consists of 48 training hours.

The Academy has established two modern and well-equipped labs for interoperability and security, in which the training will take place.

Tutorial 1

Data and Business Process Modeling

Module I: Conceptual Data Modeling

- Information Modeling
- Object Role Modeling (ORM)
- Advanced Integrity & Business Rules
- Rules Contradictions and Implications
- Optimization, transformation, and (re) engineering of conceptual models.

Module II: Business Process Modeling

- Business process identification.
- Business process modeling and mapping.
- Business process optimization, re-engineering, management.

Tutorial 2

Data Integration & Open Information Systems

- XML and Namespaces
- DTDs and XML Schema
- RDF and RDFS
- Ontology Web Language (OWL)
- SPARQL, RDF Query Language
- RDF Stores, Oracle Semantic Technology
- Data Integration and Fusion
- Data Schema Integration
- GAV and LAV Integration
- Data Integration and Fusion using RDF
- Identity Management and Linked Data
- Semantic Web and RDFa

Tutorial 3

Process Integration & Service Oriented Architectures

- Service Oriented Architecture
- Xpath, theory and practice
- Xquery, theory and practice
- Web Services, theory and practice
- REST Protocol and Principles
- SOAP Protocol and Principles
- WSDL –Web Service Description Language
- ESB – Enterprise Service Bus
- Service Integration Patterns
- BPEL – Business Process Execution Language
- UDDI -Universal Description, Discovery &Integration of Web Services



Tutorial 4

Ontology Engineering and Lexical Semantics

- The Need for Sharing Semantics
- What is an ontology
- Ontology Engineering Challenges
- Ontology Double Articulation
- Ontology Modeling Challenges, and OntoClean
- Stepwise Methodologies
- Zinnar – The Palestinian eGovernment Interoperability Framework
- Lexical Semantics and Multilingualism
- WordNets and Lexical Databases
- Arabic Ontologies

Tutorial 5

Information Security

- E-government security & ISO27000 standards.
- Internet Risks and Attacks
- Authentication
- Certificates and Biometric Authentication
- Firewalls and VPN
- Federated Identity Management (FIM).
- Access Control
- Auditing

Tutorial 6

Legal Informatics and IT laws

- Introduction to Law
- Ethical and Social Issues
- Introduction to ICT and E-government
- Intellectual Property
- Privacy and Data Protection
- Digital Signature & e-Evidence
- IT Contract
- E-Commerce (e-Transactions)
- Cybercrime
- E-archiving

