Call for Applications

Announcement in Brief

Type: Short Term Course
Programme Area: Geospatial Information, Development, Planning, Territory Development
Date: 25 March – 21 April 2019
Duration: 4 Weeks
Language: English
Location: Web Based E-Learning
Fee: No Fee
Date Published: 15th February 2019
Application Deadline: 17th March 2019
Specific target audience: No
Website: https://elearning.unidep.org
Applications: https://www.unidep.org/?apply
PROGRAM RATIONALE

Territory management increasingly encompasses broad areas of expertise. Continuing population growth is resulting in new and diverse resource and infrastructure needs, creating more difficult spatial planning issues. Thus, decision-makers have, among other things, more and more tools to plan, visualize, analyze and manage territorial data; to cross geographical, economic and social information to produce territorial analyzes; know precisely the state of the community to inform his thoughts and choices in terms of development. To do this, Geographical Information Systems technologies with their storage, analysis, visualization, simulation and data exchange capabilities are powerful tools for analyzing and managing the territory's data.

Geographic Information Systems (GIS) have undergone numerous developments and uses in various socio-economic sectors, environment and spatial planning. Through the use of Geographic Information Systems (GIS), intelligent geolocation, collaborative technologies and the creation of geographical portals, public networks (water, sanitation, lighting ...); (transport, furniture ...) are maintained efficiently and at a lower cost.

Innovations are continuing with the integration of developments in artificial intelligence, Big Data, Analytics, and modern means of geospatial data collection (Drones, 3D Laser, LIDAR, High Resolution Satellite Imageries, and Satellites Positioning Technologies. GNSS).

The possibilities of analysis and visualization of GIS, combined with the possibilities of Interactive Decision Support Systems (SIAD), make them a great contribution to Spatial Analysis.

National Geospatial Data Infrastructure (INDG) approaches make it possible to provide users with harmonized data from various sources through interoperable systems put online in a cooperative framework.

Courses offered on proprietary and open source technology platforms focus on the Fundamentals of GIS and Spatial Modeling, Mapping / Graphing Techniques, Data Analysis, Modeling, Web Mapping and GIS Portals.

The proposed course has a GIS Management perspective and use for decision support in strategic planning. It is designed, in order to provide decision-makers, planners involved in the establishment of public policies and territorial development plans, all the technical and managerial knowledge necessary for the correct choice and use of technologies GIS and Help to the Decision, and INDG in their areas of intervention.

LEARNING OBJECTIVES

The objective of the course is to familiarize participants with the decision support capabilities of Geographic Information Systems in the Public Policy process and development plans.

It aims to:

- Introduce international and regional development agendas, and their measurement frameworks
- Present GIS and information and decision support system technologies and the contribution of NGDIs
• Introduce the systemic analysis approach of development, in order to proceed with the study of the existing, the identification of the data needs, and the approaches to answer them,
• Discuss the steps to realize a decision support system, based on GIS technology, in a context of interoperability and data sharing.
• Acquire the foundations to make the appropriate technological choices
• Know the different phases of conception, use and evaluation in order to contribute effectively.
• Practically use GIS on real themes

CONTENT AND STRUCTURE

• **Module 1**: International and Regional Development Agendas
• **Module 2**: Geographical Information Systems, Territorial Decision Support Systems and Geospatial Data Infrastructure
• **Module 3**: Considerations for Design and Development
• **Module 4**: Application Examples

METHODOLOGY

This instructor led training will be delivered from 25 March to 21 April 2019. The course will be moderated asynchronously on a weekly basis and participants are required to participate in the weekly on-line discussions. In addition, each module has interactive lessons that provide the core content around the topic for that module. The lessons are designed in a way that learners are also able to self-assess their understanding through built-in quizzes. Additional resources such as bibliographies, web links and optional readings are provided for participants who wish to deepen their knowledge of the course topic.

TARGET AUDIENCE

The course is aimed at professionals in charge of the development and monitoring of Public Policies and Development Plans in various socio-economic sectors and territorial, national and local positions.

They include:

• Officials from national ministries (mainly ministries of economy, trade, industry, planning and finance), provincial departments and local authorities
• Diplomats from Permanent Missions and Ministries of Foreign Affairs
• Officials from Regional Economic Communities (RECs)
• Professionals in private sector and civil society organizations
• Faculty, researchers and students
• Interested citizens
ADDITIONAL INFORMATION

Acceptance to the Course

Applicants to the course are expected to have, as a minimum, a bachelor’s degree preferably where courses related to trade, local economic development, municipal finance and-related areas in the context of Africa and planning have been covered. In addition, two years of work experience will be required. Women candidates are also strongly encouraged to apply.

Until the registration deadline, participants are accepted to the course on a rolling basis and subject to availability of slots.

Applications must be completed exclusively on IDEP online application platform at https://www.unidep.org/?apply

Certificate of Completion

A Certificate of Completion will be issued by IDEP to all participants who successfully complete the course-related self-assessments presented for each module.

Technical Requirements

Access to internet is an essential condition for participation. The following specifications, as a minimum in terms of hardware and software, are required to take this e-Learning course, please consult your Network Administrator or Systems person to ensure that you have the following:

- Platform: Windows 95, 98, 2000, NT, ME, XP or superior; Mac OS 9 or Mac OS X; Linux
- Hardware: 64 MB of RAM, 1 GB of free disk space
- Software:
  - Adobe Acrobat Reader
  - Adobe Flash Player
  - Microsoft Office (Windows or Mac) or Open Office
  - Browser: Internet Explorer 7 or higher or Firefox 36 or higher
- Modem: 56 K
- Note that JavaScript, Cookies and Pop-ups must be enabled

CONTACT INFORMATION

IDEP Training and Research Division
Tel: +221 33 829 55 00
Fax: +221 33 822 29 64
Email: training@unidep.org