eCourse on
GIS Application in Public Health

Course Duration: 6 Months

BACKGROUND

The complex challenges posed by public health threats demand that public health professionals have a concrete understanding of the relationships among the various factors affecting health. In recent years, public health practitioners have grown increasingly aware of the value Geographic Information Systems (GIS) can add in developing an effective framework for action.

GIS can be used to solve the problems related with management of public health programs, as it helps the decision makers to understand their geographical region, know their coverage with respect to disease prevalence, and correlate different types of data to understand the probability of concurrence of any epidemics and to overcome with positive solutions to any critical information.

GIS can be useful tool for observing longitudinal trends, identifying population at risk, planning and targeting interventions, linking data, forecasting epidemics, monitoring disease patterns and interventions over time, determining geographical distribution and variation of disease and overall management of an effective health care delivery system.

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COURSE OBJECTIVES

The objectives of course are:

- To introduce fundamental concepts of GIS use within the public health context and build practical experience in the use of open source GIS software and spatially referenced data for effective program management

- To familiarize participants with the use and application of GIS in the field of health and

- To provide experience with the use of the GIS package for analysis, interpretation and presentation of data.

COURSE DESIGN & DURATION

The eCourse on **GIS Application in Public Health** is designed as a six months program. It is an interactive eLearning computer-based program, self-taught, complemented with online lectures, exercises and a comprehensive list of reference materials.

The sessions will be delivered in synchronous and asynchronous mode. There will also be a discussion board to let ideas flow between participants to enable enhanced learning.

The official language of course instructions will be **English.** Participants will be assessed based on successful completion of examination at the end of each module, modular assignments and final assignment at the end of the course.

ELIGIBILITY

The course is open to:

- Applicants with graduate/ post-graduate along with relevant understanding of public health.
- Applicants currently engaged in public health related activities such as monitoring and evaluation, planning, research, epidemiological surveillance, data management etc.

Eligible candidates will be screened by a selection committee based on their application and statement of purpose. The decision of selection committee will be final.

COURSE FEE

For Indian nationals: 18,000 INR

For South Asian nationals: 300 USD

For Other International candidates: 600 USD

TEACHING AND TRAINING METHODOLOGY

The course utilizes a blended online teaching/ learning technique. The basic course structure includes a combination of recorded computer-based sessions practical assignments, interactive sessions, and recommended readings from journal articles and textbooks in a modular format. The assignments have been designed to practice the learning from different sessions by using open source GIS software. Online learning sessions will be conducted by experienced faculty members and students will be able to log on from their laptops/personal computers.

Approximate Hours required for online reading/self-study/assignment per week – 7.0 hours

EVALUATION

Students will be evaluated at the end of each module using multiple choice questions and assessed on an ongoing basis through coursework or assignments. Participants will be able generate their certificate online by achieving 80% or more overall score.

SYSTEM REQUIREMENTS

- **Internet Bandwidth:** 1 Mbps

- **Processor:** Intel Pentium 4 or equivalent and above

- **RAM:** 512 MB and above (1 GB recommended)

- **Supported browsers:** recent Google Chrome, recent Mozilla Firefox, Safari 6, Internet Explorer 9

- **Latest Adobe Flash Player**

- **Supported Operating Systems:** Windows XP, Windows Vista, Windows 7, Mac OS, Linux, iOS, Android, etc.

- **Headset with microphone** (web camera - optional)

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Other eLearning Programs offered by PHFI

S.No	Name of the Program	Duration	Offered at
1.	ePost Graduate program in Public Health Nutrition	1 year	IIPH-Delhi
2.	ePost Graduate Program in Epidemiology	1 year	IIPH-Delhi
3.	ePost Graduate Program in Management of Reproductive and Child Health Programmes	1 year	IIPH-Delhi
4.	ePost Graduate Program in Health Promotion	1 year	PHFI
5.	ePost Graduate Program in Public Health & Hospital Management for Nursing & Allied Health Professionals	1 year	IIPH-Gandhinagar
6.	ePost Graduate Program in Public Health Services Management	1 year	IIPH-Bhubaneswar
7.	ePost Graduate Program in Health Economics, Health Care Financing & Policy	1 year	IIPH-Delhi
8.	eCourse in Research Methodology	6 months	IIPH-Gandhinagar
9.	eCourse on Monitoring & Evaluation of Health Programs	6 months	IIPH-Delhi
10.	eCourse in Public Health Surveillance	6 months	IIPH-Hyderabad
11.	eCourse on Public Health Development for ICDS Officials	6 months	IIPH-Delhi
12.	eCourse in Advanced Hospital Management	6 months	IIPH-Gandhinagar
13.	eCourse in Health, Safety & Environment Management	4 months	IIPH-Gandhinagar
14.	eCourse in Clinical Research Methods	4 months	IIPH-Delhi
15.	eCourse in Research Ethics	3 months	IIPH-Delhi
16.	eCourse on Tobacco Control	3 months	PHFI
17.	eCourse in Effective Grant Writing in Public Health	3 months	IIPH-Gandhinagar
18.	eCourse in Public Health Disability and Research	3 months	IIPH-Hyderabad

Unique Features of PHFI Centre for eLearning

- State of the art Learning Management System
- Multidisciplinary faculty
- Self-paced learning
- Competency-driven curriculum
- Enriching virtual classroom experience
- Collaboratively developed programs with national and international organizations
- Wide range of programs in key areas of public health practice

Online Application → Application Status Monitoring → Automatic Email Notifications → Online payment via payment gateway → Automatic Student Registration in LMS → Online Lectures & Assessments → Validation of Online Certificate

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On-Campus programs offered by PHFI

Name of the Program	Duration	Offered at
PhD in Public Health	Min. 3 years	IIPH-Gandhinagar
Integrated MSc & PhD in Clinical Research	2 years for MSc and min. 3 years for PhD	IIPH-Delhi
Integrated MSc & PhD in Health Informatics	2 years for MSc and min. 3 years for PhD	IIPH-Hyderabad
Master of Public Health (MPH)	2 years	IIPH-Delhi IIPH-Gandhinagar IIPH-Hyderabad IIPH-Shillong IIPH-Bhubaneswar (proposed)
Master of Hospital Administration (MHA)	2 years	IIPH-Gandhinagar
Post Graduate Diploma in Public Health Management (PGDPHM)	1 year	IIPH-Delhi IIPH-Gandhinagar IIPH-Hyderabad IIPH-Bhubaneswar
Certificate Course in Community Health (CCCH)	6 months	IIPH-Gandhinagar
Certificate Course on Geriatric Health Caregiving (CCGHC)	4 months	IIPH-Gandhinagar
Certificate Course in Public Health Management (CCPHM)	3 months	IIPH-Bhubaneswar
Associate Fellow of Industrial Health (AFIH)	3 months	IIPH-Gandhinagar

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