Basic GIS Training – June 2014

In June 2014, the MIMU will offer a 10 day intensive training course in the use of Geographic Information Systems applications for humanitarian and development activities. The course will be conducted in Yangon and will focus on the use of the QGIS software (free and open source).

**Participants**: The course will be limited to 15 trainees. Participants should be staff of humanitarian and development agencies/organizations which are using or intending to use GIS in their projects. Participants should be computer literate and interested to expand their knowledge in this area. Priority will be given to organisations needing to use GIS in their projects.

**Expected Outcome**: The participants will be provided with the basic skills in use of GIS and geospatial standards so as to be able to independently prepare maps for their organization using QGIS software.

The MIMU will also provide advisory support following the training to assist trainees with any difficulties. Participants who have successfully completed this training will be invited to represent their organisation in the Monthly GIS Working Group Meeting held in Yangon.

**Training Period**: June 2 to June 20 (10 days) from 8.30am to 4.30pm

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sun** | **Mon** | **Tue** | **Wed** | **Thu** | **Fri** | **Sat** |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |

**Training Schedule**:

**Training Venue: *To be confirmed***

*(Training will be conducted full day as followed schedule to allow some practicing times for their organizational project. All participants must attend full-time and must bring their own laptops for all training sessions.)*

**Contact Address: GIS Unit – MIMU**

**Phone no : 01-2305663, Ext-107**

**Email :** [**maps@themimu.info**](mailto:maps@themimu.info)

**QGIS Training Agenda and Contents**

Training will include an introduction to the relevant Theory (20% of the course time), Hands-on exercises on use of QGIS (60%), specific practical Projects/assignments (20%) followed by discussions wherever relevant.

Specifically, the training will cover the following.

1. Introduction of participants and their needs,
2. Free and Open Source Softwares, Introduction to QGIS, GUI interface, QGIS Configuration, Importing Data, Data Visualization, Exporting Data,
3. Spatial Data Types in GIS, Viewing different data types and Attribute, Labeling, Downloading QGIS Plugins, Vector Styling, Basic Queries,
4. Data Capturing and Editing in QGIS, Exploring available GIS datasets, thematic datasets
5. Linking external Tables, opening external datasets, using tabular data in QGIS, making graphs in QGIS, GIS Analysis
6. Map Projection and Projection Conversions, Map Unit, Coordinate System, EPSG Codes, Map Scale, e.g
   1. A 5 pixel thick dot in different map scales (mappable unit) and its representative length on ground.
   2. GeoReferencing
7. Digitizing in QGIS, Attribute Editing, Measuring, Organizational Projects/Assingments, GeoProcessing in QGIS
8. Introduction to GPS, Importing GPS data to QGIS, Live tracking.
9. Raster Image Analysis and Processing, Making heat map, Create Contours from DEM, surface interpolation for rainfall,
10. Making Map in QGIS, Map Elements, Pie Chart, Bar Chart, Styling Vector data,
11. Map Layout in QGIS – Print Composer, Making maps for Snapshot, report, printing, making different maps styles,
12. Introduction to GRASS GIS, GIS Modeling, Organizational Map – Project,
13. Using Online Data in QGIS, GeoServer, Open Street map, Google Map, , Making heat map, Introduction to **InaSAFE for disasters**, OpenLayers Plugins
14. Presentation of projects, Feedback and Discussion

Some topics may change depending on the specific need and timing.

Application Form

**Name :**

**Position :**

**Organization :**

**Contact details**

**Email :**

**Office Address :**

**Tele :**

Could you please tell us about you/your organization

* why you need GIS in your project/organization,
* what is your problem using GIS and what’s your main need in terms of GIS
* how will you intend to apply GIS in your project?
* write down the list of softwares that you can use:

***Attached by Supervisor Approval Letter***

[Tick] I’ll bring my own laptop and attend full time.

**Note**: Training is free of charge and the number of seats is limited to fifteen only. Organization/Applicant must proactively submit the application by themselves with the approval letter from their organization or supervisor. MIMU has the right to select/deny the candidate if the seat is full or if it feels the applicant is not eligible.

Please submit the completed Application Form to [info.mimu@undp.org](mailto:info.mimu@undp.org) and maps@themimu.info

Dead line of application: 23 May 2014 (5:00 PM)