

## HIGHLIGHTS

Mapping is an important aspect of development work, helping to visualize spatial features and monitor temporal changes. Most of the social workers and development professionals lack GIS based mapping skills, where as GIS professionals fall short due to limited domain knowledge.

This short skill development course meets the growing need for digital mapping skills among NGO staff and rural development workers. This practice-oriented course covers the following aspects:

1. Introduction to Geographical Information System (GIS) and data capturing using Global Positioning System (GPS) tools
2. Basic operations of open source QGIS software
3. Digitizing paper maps, Sol topo sheets and from Google Earth
4. Steps in developing a thematic water map for a given area

After successfully completing this course, participants will be able to develop digital maps, such as, resource maps, contour maps, land-use, forest, spatial trends of health, education facilities and watershed boundary maps using QGIS.

## VENUE & DURATION

### Arnold Bhavan

1-8-11/1/A, Ravindra Nagar  
Habsiguda, Hyderabad-500007

Phone (O): 040 27154741  
Fr. Davidraj - 8790414345 (6 am to 10 pm)

### Location Map:

<https://goo.gl/maps/uHXhRv2axiN2>

Medium: English & Telugu

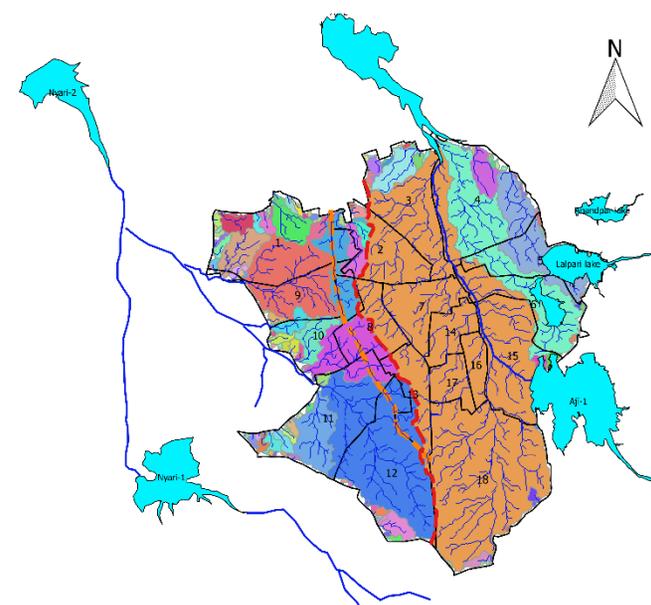
Duration: 17.08.2018 (10.00 am) to  
18.08.2018 (4.00 pm)

# GIS and Mapping

(Basic Skills Course)

for NGO workers & Development professionals

17-18 August 2018



**Water and Livelihoods Foundation (WLF)**

12-13-451, Street no.1, Tarnaka, Secunderabad-17  
Ph: 040 27014467, e-mail: [wlfoundation@outlook.com](mailto:wlfoundation@outlook.com)  
web: [www.wlfoundation.in](http://www.wlfoundation.in)

## ABOUT WLF

Water and Livelihoods Foundation (WLF) is an NGO based in Hyderabad, India. WLF strives towards achieving water security and livelihoods enhancement of poor through community development initiatives, action research & innovations and skill development.

Applications of Geographical Information System (GIS) in water resources systems analysis and flood modelling is one of the core areas of its expertise. WLF offers unique blend of expertise on applications of spatial analysis capabilities of GIS to water resources domain.

## RESOURCE PERSONS

R.V.Ramamohan & Team

Ramamohan has got about 20 years of professional experience in NGOs, particularly on water, NRM and livelihoods enhancement. He holds an M.E. in Water Resources Engineering and professional certification in GIS & DEM applications from NPTEL, IIT-Roorkee. Hydrological studies and flood flow modelling using GIS is his core interest area.

## OBJECTIVE OF THE COURSE

To impart basic skills on digital map making using GIS tools for NGO workers and development professionals

## COURSE CONTENT

1. Introduction to Geographical Information System (GIS) and data capturing using Global Positioning System (GPS) tools
2. Introducing Digital Elevation Models (DEMs) and Digital Surface Models (DSMs) and their applications in watershed demarcation
3. Mapping applications in watershed planning, land use, soil quality, forestry, water supply, agriculture, ground water quantity & quality, health, education etc.
4. Software distribution, installation and basic operations of open source QGIS software
5. Geo-referencing paper maps
6. Digitizing paper maps, Sol topo sheets and from Google Earth
7. Contour maps from primary data and DEM/DSMs
8. Developing spatial maps on elevation, contours, forestry, watershed, water resources, spatial trends in access to health, education facilities etc.

## METHODOLOGY

Both conceptual inputs and practical skills are provided in this training course. Participants will also practice some of the concepts during the course using few computers provided. Participants are encouraged to bring their own laptops for practice sessions on QGIS. Software installation is provided by organizers.

## EXPECTED BACKGROUND OF PARTICIPANTS

NGO staff and development professionals involved in rural and urban interventions (in agriculture, water conservation, forestry, soil & water conservation, health, education sectors etc.) with basic knowledge of computers.

## COURSE FEE & METHOD OF APPLICATION

- Early bird offer - Applied on (or) before 15<sup>th</sup> July 2018 → Rs. 3,800 per participant
- Applied on (or) after 16<sup>th</sup> July 2018 → Rs.4,500 per participant

Shared accommodation is provided to out-station participants. Course fee includes costs of food and printed reading material. Women professional are encouraged to apply. Participation certificates will be sent by WLF after completion of the training course. Signed applications on a plain paper (Name, Organization, Address, e-mail, mobile no., Academic Qualifications, Professional experience, Cheque no. / date.) may be send along with the Cheque (on 'Water and Livelihoods Foundation') to:

*Water and Livelihoods Foundation  
12-13-451, Street no.1, Tarnaka  
Secunderabad-500017, Telangana  
Ph: 040 27014467, Mob: 9440194866*

Send any queries to [wlfoundation@outlook.com](mailto:wlfoundation@outlook.com)