Hands-on training on Remote Sensing & GIS using QGIS

21 days training of remote sensing and GIS using QGIS has been organized for the Student of PG, Ph.D. and faculties from 19 May to 11 June 2022. The training was organized in hybrid mode (online and offline) and it covers Basic of RS &GIS along with QGIS software for satellite image processing. The training program also includes various special lectures on applications of RS in agriculture and allied field, spectral reflectance signatures and spectral indices of vegetation and soils, digital image processing, drought monitoring and management etc.

The detailed training schedule is listed below:

Date	Topic
19/05/2022	Inauguration, Interaction with participants, Special lecture on Basics of Remote Sensing andits application in agriculture
20/05/2022	Satellites, Sensors, Resolutions & Visual Interpretationof Satellite Imager.
21/05/2022	Different Geoportals (Earth explorer, Bhuvan, Copernicus ESA, etc.), Introduction to GIS and Special Lecture
23/05/2022	Introduction of QGIS, Downloading & Installation ofQGIS Software
24/05/2022	Introduction of QGIS open- source software & its overview
25/05/2022	Geo referencing of Map
26/05/2022	Generation of vector features such as Point, Line, and Polygon, filling data in the attribute table and area calculation.
27/05/2022	Downloading of Landsat-8satellite dataset and about bands information.
28/05/2022	Layer stacking of differentbands and clipping of Area of Interest (AOI)
30/05/2022	Band combinations for agriculture applications usingFalse Colour Composite
31/05/2022	Pre- Processing of Landsat 8 using SCP
01/06/2022	Region of Interest (ROI) and Creating Training Dataset
02/06/2022	Introduction of Classification, Supervised classification usingMinimum distance algorithm
03/06/2022	Introduction of Classification, Supervised classification usingMinimum distance algorithm
04/06/2022	Supervised classification using Minimum distance algorithm
06/06/2022	Area Calculation ofLU/LC classified data
07/06/2022	Map Layout Creation and Special Lecture
08/06/2022	Installation of Quick OSM plugin and downloading of OSM data

09/06/2022	DEM data processing(Drainage/Watershed Delineation)
10/06/2022	DEM data processing& external thematic maps using WMSlayers and Special Lecture
11/06/2022	Presentation by Participants on LU/LC &Thematic maps Post Training Assessment & Valedictory Function

Participants in Hands-on Training on RS and GIS Using QGIS									
Number of Participation						**% of participation of diff. Category**			
Gender	UR	SC	ST	OBC	Total	UR	SC	ST	OBC
Male	17	6	2	18	43	39.5	14.0	4.7	41.9
Female	10	2	4	9	25	40.0	8.0	16.0	36.0
Total	27	8	6	27	68	39.7	11.8	8.8	39.7