

# CERTIFICATE COURSE ON ADVANCED GIS



by



**National Atlas and Thematic Mapping Organization(NATMO)  
&  
Centre for Applied Geoinformatics(SAIARD)**

**THEORY- 20 HOURS**

**PRACTICAL -80 HOURS**

DATE	TIME	CLASS	SPEAKER
10.08.2021	2.00 -4.00	INAUGURAL SESSION AND REGISTRATION	<b>Dr. Tapati Banerjee, Director, NATMO Dr. Biswajit Roy Choudhury, Chairman,SAIARD</b>
10.08.2021	4.00 -5.00	CONCEPT OF THEMATIC CARTOGRAPHY	Dr.MousumiRoychowdhury
12.08.2021	2.30 -3.45	CONCEPT OF GEO- VISUALIZATION (CARTOGRAPHY AND GIS)	Mr. ShahidGulzar
12.08.2021	3.45 -5.00	CONCEPT OF PROJECTION, COORDINATE SYSTEM AND DATUM	Mr. Sajikrishnan K.

17.08.2021	2.30 -3.45	FUNDAMENTALS OF REMOTE SENSING	Dr.Swagata Chatterjee
17.08.2021	3.45 -5.00	ACTIVE AND PASSIVE SENSORS, CONCEPT OF RESOLUTION - EMR AND SENSORS, DETECTORS, DIGITAL CAMERAS.	Mr.Shahid Gulzar
20.08.2021	2.30 -3.45	SPECTRAL SIGNATURES AND IT'S RESPONSES, BASICS OF VISUAL INTERPRETATION	Mr. Shahid Gulzar
20.08.2021	3.45 -5.00	<b>PRACTICAL</b> CONCEPT OF Q-GIS AND PLUG IN GEOREFERENCING IN QGIS	Mr. Shahid Gulzar
24.08.2021	2.30 -3.45	GEOREFERENCING IN QGIS	Mr. Shahid Gulzar
24.08.2021	3.45 -5.00	CONVERSION OF .CSV FILE IN QGIS	Mr. Shahid Gulzar
26.08.2021	2.30 -3.45	CONVERSION OF .CSV FILE IN QGIS	Mr. Shahid Gulzar
26.08.2021	3.45 -5.00	CONVERSION OF KMZ /KML INTO QGIS	Mr. Shahid Gulzar
31.08.2021	2.30 -3.45	CONVERSION OF KMZ /KML INTO QGIS	Mr. Shahid Gulzar
31.08.2021	3.45 -5.00	<b>PRACTICAL</b> ADDING VECTOR LAYER IN QGIS, LABELLING, SYMBOLOGY, COPY NEW VECTOR LAYER FROM EXISTING.	Mr. Shahid Gulzar

02.09.2021	2.30 -3.45	<b>PRACTICAL</b> ADDING VECTORLAYER IN QGIS, LABELLING, SYMBOLGY, COPY NEW VECTOR LAYER FROM EXISTING.	Mr. Shahid Gulzar
02.09.2021	3.45 -5.00	<b>PRACTICAL</b> DIGITIZATION AND MAP COMPOSITION IN QGIS	Mr. Shahid Gulzar
07.09.2021	2.30 -3.45	<b>PRACTICAL</b> DIGITIZATION AND MAP COMPOSITION IN QGIS	Mr. Shahid Gulzar
07.09.2021	3.45 -5.00	<b>PRACTICAL</b> DEM, CONTOUR GENERATION AND 3D MODELLING IN QGIS	Mr. Shahid Gulzar
09.09.2021	2.30 -3.45	<b>PRACTICAL</b> DEM, CONTOUR GENERATION AND 3D MODELLING IN QGIS	Mr. Shahid Gulzar
09.09.2021	3.45 -5.00	<b>INTERACTIVE SESSION</b>	Mr. Shahid Gulzar
14.09.2021	2.30 -3.45	INTRODUCTION TO ERDAS IMAGINE	Dr.Swagata Chatterjee Dr. Santosmita Das
14.09.2021	3.45 -5.00	<b>PRACTICAL</b> FILTERING, IMAGE ADDITION, IMAGE SUBTRACTION, IMAGE MULTIPLICATION	Mr.ManasHudait Mr. Jitendra Jaiswal Dr. Santosmita Das

16.09.2021	2.30 -3.45	<b>PRACTICAL</b> FILTERING, IMAGE ADDITION, IMAGE SUBTRACTION, IMAGE MULTIPLICATION	Mr.ManasHudait Mr. Jitendra Jaiswal Dr. Santosmita Das
16.09.2021	3.45 -5.00	<b>PRACTICAL</b> IMAGE TRANSFORMATION: COLOUR SPACE TRANSFORMATION, TCT,FFT,FUSION	Mr.ManasHudait Mr. Jitendra Jaiswal Dr. Santosmita Das
21.09.2021	2.30 -3.45	<b>PRACTICAL</b> IMAGE TRANSFORMATION: COLOUR SPACE TRANSFORMATION, TCT,FFT,FUSION	Mr.ManasHudait Mr. Jitendra Jaiswal Dr. Santosmita Das
21.09.2021	3.45 -5.00	<b>PRACTICAL</b> MODEL BUILDING	Mr.ManasHudait Mr. Jitendra Jaiswal Dr. Santosmita Das
23.09.2021	2.30 -3.45	<b>PRACTICAL</b> MODEL BUILDING	Mr.ManasHudait Mr. Jitendra Jaiswal Dr. Santosmita Das
23.09.2021	3.45 -5.00	<b>PRACTICAL</b> SURFACE MODEL AND SURFACE ANALYSIS, SURFACE INTERPOLATION	Mr.ManasHudait Mr. Jitendra Jaiswal Dr. Santosmita Das
28.09.2021	2.30 -3.45	<b>PRACTICAL</b> SURFACE MODEL AND SURFACE ANALYSIS, SURFACE INTERPOLATION	Mr.ManasHudait Mr. Jitendra Jaiswal Dr. Santosmita Das
28.09.2021	3.45 -5.00	<b>INTERACTIVE</b> <b>SESSION</b>	Mr.ManasHudait Mr. Jitendra Jaiswal Dr. Santosmita Das
30.09.2021	2.30 -3.45	IMAGE PROCESSING, CLASSIFICATION, ACCURACY ASSESSMENT, VECTORISATION.	Mr.Pallav Chowdhury Mr. Jitendra Jaiswal Dr. Santosmita Das

30.09.2021	3.45 -5.00	<b>HANDS ON TRAINING OF PROJECT BASED LANDUSE MAPPING: LANDUSE CLASSIFICATION AND MAPPING</b>	Mr.Pallav Chowdhury Mr. Jitendra Jaiswal Dr. SantosmitaDas Mr.ManasHudait Mr. Shahid Gulzar
05.10.2021	2.30 -3.45	do	Mr.Pallav Chowdhury Mr. Jitendra Jaiswal Dr. Santosmita Das Mr.ManasHudait
05.10.2021	3.45 -5.00	do	Mr.Pallav Chowdhury Mr. Jitendra Jaiswal Dr. Santosmita Das Mr. Shahid Gulzar
07.10.2021	2.30 -3.45	do	Mr.Pallav Chowdhury Mr. Jitendra Jaiswal Dr. Santosmita Das Mr.ManasHudait
07.10.2021	3.45 -5.00	do	Mr.Pallav Chowdhury Mr. Jitendra Jaiswal Dr. Santosmita Das Mr. Shahid Gulzar
21.10.2021	2.30 -3.45	do	Mr.Pallav Chowdhury Mr. Jitendra Jaiswal Dr. Santosmita Das Mrs.Moonmoon Sen
21.10.2021	3.45 -5.00	do	Mr.PallavChowdhury Mr. Jitendra Jaiswal Dr. SantosmitaDas Mr.ManasHudait

26.10.2021	2.30 -3.45	do	Mr.Pallav Chowdhury Mr. Jitendra Jaiswal Dr. Santosmita Das Mrs.Moonmoon Sen
26.10.2021	3.45 -5.00	do	Mr.PallavChowdhury Mr. Jitendra Jaiswal Dr. SantosmitaDas Mr. ShahidGulzar
28.10.2021	2.30 -3.45	do	Mr.PallavChowdhury Mr. Jitendra Jaiswal Dr. Santosmita Das Mr.ManasHudait
28.10.2021	3.45 -5.00	<b>IINTERACTIVE SESSION</b>	Mr. Pallav Chowdhury Mr. Jitendra Jaiswal Dr. Santosmita Das Mr.ManasHudait Mr. Shahid Gulzar Mrs.Moonmoon Sen
02.11.2021	2.30 -3.45	GIS: BASIC PRINCIPLES AND DATA STRUCTURE	Smt. Mahuya Chaudhuri
02.11.2021	3.45 -5.00	INTRODUCTION TO ARCGIS: GEOREFERENCING, FILE CREATION, EDITING, TOPOLOGY BUILDING	Smt Rita Chowdhury
09.11.2021	2.30 -3.45	<b>PROJECT BASED PRACTICAL: DISTRICT PLANNING MAPS</b>	Mr. Shahid Gulzar Mr.ManasHudait Mr. Shahid Gulzar Mrs.Moonmoon Sen
09.11.2021	3.45 -5.00	do	Mr. Shahid Gulzar

11.11.2021	2.30 -3.45	do	Mr. Shahid Gulzar
11.11.2021	3.45 -5.00	do	Mr.ManasHudait
16.11.2021	2.30 -3.45	do	Mr. Shahid Gulzar
16.11.2021	3.45 -5.00	do	Mr.ManasHudait
18.11.2021	2.30 -3.45	do	Mrs.Moonmoon Sen
18.11.2021	3.45 -5.00	do	Mr.ManasHudait
23.11.2021	2.30 -3.45	do	Mrs.Moonmoon Sen
23.11.2021	3.45 -5.00	do	Mr. Shahid Gulzar
25.11.2021	2.30 -3.45	ARC GIS: DATA ATTACHMENT, ANALYSIS, THEMATIC REPRESENTATION, LAYOUT	Smt Rita Chowdhury
25.11.2021	3.45 -5.00	<b>PROJECT BASEDPRACTICAL: DISTRICTPLANNINGM APS</b>	Mr. Shahid Gulzar Mr.ManasHudait Mr. Shahid Gulzar Mrs.Moonmoon Sen
30.11.2021	2.30 -3.45	do	Mr. Shahid Gulzar
30.11.2021	3.45 -5.00	do	Mr.ManasHudait
02.12.2021	2.30 -3.45	do	Mrs.MoonmoonSen
02.12.2021	3.45 -5.00	do	Mr.ManasHudait
07.12.2021	2.30 -3.45	do	Mr. Shahid Gulzar
07.12.2021	3.45 -5.00	do	Mrs.Moonmoon Sen
09.12.2021	2.30 -3.45	do	Mr.ManasHudait
09.12.2021	3.45 -5.00	do	Mr. Shahid Gulzar
14.12.2021	2.30 -3.45	do	Mrs.Moonmoon Sen
14.12.2021	3.45 -5.00	do	Mr.ManasHudait
16.12.2021	2.30 -3.45	do	Mrs.Moonmoon Sen
16.12.2021	3.45 -5.00	do	Mr. Shahid Gulzar
21.12.2021	2.30 -3.45	do	Mr.ManasHudait

21.12.2021	3.45 -5.00	<b>INTERACTIVE SESSION</b>	Mrs. Rita Chowdhury, Mrs. Mahuyachaudhuri Mr. Shahid Gulzar Mr. ManasHudait Mr. Shahid Gulzar Mrs. Moonmoon Sen
23.12.2021	2.30 -3.45	PPT PREPARATION	Mr. Shahid Gulzar Mr. ManasHudait Mr. Shahid Gulzar Mrs. Moonmoon Sen
23.12.2021	3.45 -5.00	PPT PREPARATION	Mr. Shahid Gulzar Mr. ManasHudait Mr. Shahid Gulzar Mrs. Moonmoon Sen
28.12.2021	2.30 -3.45	<b>INTRODUCING PYTHON PROGRAMMING LANGUAGE</b>	Mrs. Moonmoon Sen
28.12.2021	3.45 -5.00	<b>PRACTICAL BASIC PYTHON</b>	Mrs. Moonmoon Sen
30.12.2021	2.30 -3.45	<b>PRACTICAL BASIC PYTHON</b>	Mrs. Moonmoon Sen
30.12.2021	3.45 -5.00	<b>PRACTICAL BASIC PYTHON</b>	Mrs. Moonmoon Sen
04.01.2022	2.30 -3.45	DATASTRUCTURE IN PYTHON	Mrs. Moonmoon Sen
04.01.2022	3.45 -5.00	<b>PRACTICAL (PYTHON) DATA STRUCTURE IN PYTHON</b>	Mrs. Moonmoon Sen
06.01.2022	2.30 -3.45	do	Mrs. Moonmoon Sen
06.01.2022	3.45 -5.00	INTRODUCTION OF PYTHON IN GIS	Mrs. Moonmoon Sen
11.01.2022	2.30 -3.45	INTRODUCING ARCPY	Mrs. Moonmoon Sen
11.01.2022	3.45 -5.00	<b>PRACTICAL (PYTHON) READING WRITING VECTOR ATTRIBUTE TABLE</b>	Mrs. Moonmoon Sen



13.01.2022	2.30 -3.45	<b>PRACTICAL (PYTHON)</b> READING WRITING RASTER DATA	Mrs.Moonmoon Sen
13.01.2022	3.45 -5.00	PRACTISE VECTOR ANDR ASTERTABLE IN PYTHON	Mrs.Moonmoon Sen
18.01.2022	2.30 -3.45	PYTHON SCRIPTING	Mrs.MoonmoonnSen
18.01.2022	3.45 -5.00	<b>PRACTICAL (PYTHON)</b> TOOL CREATION ARCGIS	Mrs.Moonmoon Sen
20.01.2022	2.30 -3.45	do	Mrs.Moonmoon Sen
20.01.2022	3.45 -5.00	PYTHON GEOSPATIAL OPEN LIBRARIES	Mrs.Moonmoon Sen
25.01.2022	2.30 -3.45	<b>PRACTICAL (PYTHON)</b> PYTHON GEOSPATIAL OPEN LIBRARIES	Mrs.Moonmoon Sen
25.01.2022	3.45 -5.00	do	Mrs.Moonmoon Sen
27.01.2022	2.30 -3.45	<b>PRACTICAL (PYTHON)</b> AUTOMATION BATCH FILES	Mrs.Moonmoon Sen
27.01.2022	3.45 -5.00	do	Mrs.Moonmoon Sen

01.02.2022	2.30 -3.45	NETWORK ANALYSIS IN GIS	Mrs.Moonmoon Sen
01.02.2022	3.45 -5.00	<b>PRACTICAL</b> NETWORK ANALYSIS IN DESKTOP GIS	Mrs.Moonmoon Sen
03.02.2022	2.30 -3.45	do	Mrs.Moonmoon Sen
03.02.2022	3.45 -5.00	<b>PRACTICAL</b> NETWORK ANALYSIS EXAMPLE IN PYTHON LIBRARY USING STUDY OF SUITABLE SITE FINDING	Mrs.Moonmoon Sen
08.02.2022	2.30 -3.45	do	Mrs.Moonmoon Sen
08.02.2022	3.45 -5.00	<b>INTERACTIVE</b> <b>SESSION</b>	Mrs.Moonmoon Sen
10.02.2022	2.30 -3.45	EXAMINATION	Mr. Shahid Gulzar Mr.ManasHudait Mrs.Moonmoon Sen
10.02.2022	3.45 -5.00	CONCLUDING SESSION	