

DEPARTMENTAL ACTIVITY: MARCH 2024

NAME OF EVENT : 30 hr ADD-ON CERTIFICATE COURSE

ORGANISED BY: Department of Geography and Geo-Solutions

DATE: 2nd TO 30th MARCH, 2024

DURATION: (10:30am-4:30pm every Saturday 24 hr offline+6hr online= 30 hrs)

VENUE: ROOM 314B; SHRI SHIKSHAYATAN COLLEGE

TOPIC: APPLICATION OF AI & MACHINE LEARNING IN GEO SPATIAL MAPPING

INSTRUCTOR: Shri Ayan Ghosh 9836421525 (Academic coordinator, Geo-Solutions)

NUMBER OF PARTICIPANTS : 23 (Sem 6)- Self-Financed Rs1500/candidate

CO-ORDINATOR: Dr Nivedita Roy Barman

BRIEF DESCRIPTION: Students planning to take up Geoinformatics for higher studies were provided the opportunity to take up this specialised course on Geo-spatial mapping.

OUTCOME: The students were given hands on training in GIS Remote Sensing mapping of Cyclone monitoring, land surface temperature mapping, night time image sprawl for urban mapping; ocean surface temperature and bathymetric mapping

APPLICAN OF AI & MACHINE LEARNING IN GEO SPATIAL MAPPING
INTRODUCTION TO AI & MACHINE LEARNING
Introduction to AI
Introduction to Machine Learning
Merits & Demerits of AI
Application of AI in Geospatial Science
Comparative Study Between AI & Conventional Mapping
Introduction to Spatial Mapping Using AI
Concept of JAVA Script
BASIC CONCEPT OF JAVA SCRIPT
Variable,Constant,Operator,Function,List,Dictionary,If,Else,Loop,Array,String
SPATIAL MAPPING USING AI & MACHINE LEARNING TECHNIQUES
NOAA Image Processing(Night Time Image)
Landsat Image Processing
SRTM Image Processing
Image Collection Filter
Feature Collection Filter
Feature Collection Buffer
Export Feature Collection
Filter Feature Clip
LULC Mapping
Area Calculate on Raster
Legend
Accuracy Assessment
Pollution Monitoring
Disaster Monitoring
Forest Fire Monitoring
Rainfall Data Analysis with Chart
Land Surface Temperature with Chart
Soil Map Processing

