

on

Geospatial Technology

From November, 2022 to February, 2023

Organized By
Department of Geography
Mangaldai College , Mangaldai
Darrang, Assam

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ADD ON COURSE ON GEO-SPATIAL TECHNOLOGY AND ITS APPLICATION IN VARIOUS FIELDS.

ORGANIZED BY: DEPARTMENT OF GEOGRAPHY, MANGALDAI COLLEGE

DURATION: THREE MONTHS16TH NOVEMBER, 2022 TO 16TH FEBRUARY, 2023

SYLLABUS OF THE COURSE:

MODULE I	MODULE II	MODULE III
Concept of Geo-spatial	Concept of Remote Sensing,	Introduction to GIS, Basic
Technology: Basics of	Principles of Remote	principles of GIS,
Remote Sensing,	Sensing, Components of	Components of GIS, Concept
Geographical Information	Remote Sensing, Types of	of Data, GIS Data Types,
System and Global	Remote Sensing, Satellite	Spatial data analysis, Digital
Positioning System.	Remote Sensing, Sensors and	Cartography and
	platforms, visual and digital	Fundamentals Global
	image processing	Positioning System. Open
		Source GIS.
MODULE IV	MODULE V: Practical	MODULE VI: Practical
Concept of GPS,	Geo-referencing,	Digital cartography; GIS data
Components of GPS, GPS	Radiometric corrections,	types: raster and vector
types, Working principle of	Spectral and spatial	preparation; Digitization of
GPS.	enhancement of satellite	vector data; Attribute editing,
	image, Supervised and	Map composition. Global
	unsupervised classification,	Positioning System: Use of
	Accuracy assessment.	handheld GPS, GPS data
		collection and processing.
MODULE VII	STUDENTS WILL GET EXPOSURE TO REMOTE	
Application of Geo-spatial	SENSING AND GIS SOFTWARES.	
Technology in various fields.	• QGIS	
Forest Management	• ERDAS	
Biodiversity	• ILWIS	
Conservation.	ARC GIS	
 Land use planning. 	GOOGLE EARTH PRO	
• Wildlife habitat	• EASY GPS	
management and	GPS ESSENTIAL	
conservation	DNR GARMIN	
• Urban environmental		
management.		
• Landscape ecological		
studies, etc.		

COURSE FEES: Rs. 300/- (THREE HUNDRED ONLY) FOR MANGALDAI COLLEGE STUDENTS