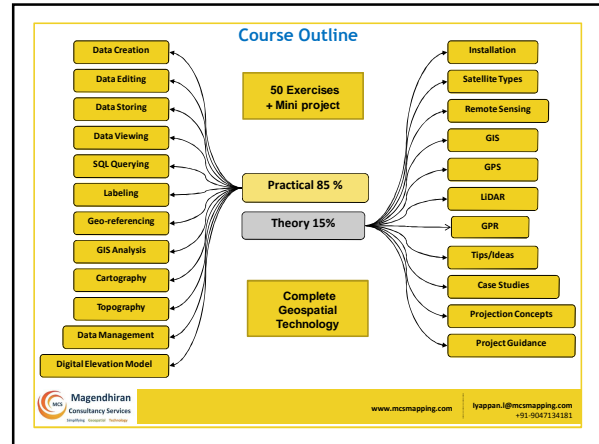


**Magendhiran Consultancy Services**  
Simplifying Geospatial Technology

## GIS & Remote Sensing

Training Brochure

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### GIS Training

Magendhiran Consultant's GIS Training program that provides a comprehensive review of the selected topic and illustrates how Geospatial technology can be used for real time application

**Participants will:**

- Fully understand the requirements of Topics
- Identify steps necessary for understanding the concepts of Geospatial Technology.
- Understand the implications and benefits of Topics Discuss how employees contribution and importance of their role

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### Day 1

Theory/Case studies /Animation	Topic	Ex.no	Lab session
Registration			
GIS Introduction	Data Creation	1	Data Creation from Aerial Photo
Remote Sensing Introduction		2	Data Creation from Satellite Imagery
A-Earth Concepts - spherical	Editing	3	Data Editing
A-Latitude longitude concepts		4	Attribute Adding
Projection Concepts	Viewing	5	Single Symbols
C-UK-Aerial Survey		6	Graduate Color
C-UK-Aerial Photo-Ortho		7	Continuous color
C-India Satellite Imagery		8	Unique Color

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### Day 2

Theory/Case Studies/Animation	Topic	Ex.no	Lab session
C-Reliance Project		9	Labelling
C-Census Project		10	Diagram Overlay
C-Enercon Project		11	Diagram Overlay - SVG
A-Earth History	Attribute	12	Attribute Calculator
A - Hurrican map		13	Join Attribute to another layer
A-GPS Satellites		14	Join Attribute Excel Sheet
GPS survey Introduction		15	GPS Survey Data
A-Vechile Tracking	Georeferencing	16	Georeferencing - Map
A-GPS Plus		17	Georeferencing - Satellite Imagery
C-Dubai Water network		18	Text file
C-UK Geoglobal Project		19	Import CAD file
C-Case study		20	Coordinate Capture
A-Flood Water		21	New Projection
A-Land Slide	Query	22	Selection Tools
A-Mohul History		23	SQL Query

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### Day 3

Theory/Case Studies/Animation	Topic	Ex.no	Lab session
A-CO2 History	Interpolation	24	Logical Query
A-Satellite Imagery Japan-Tsunami		25	Spatial Query
A-Time zones		26	Measuring
		27	Add Geometry
C-shortest Route Oil Pipe		28	Shortest Route
C-Mumbai Project	Data management	29	Merge shapefiles
C-Chennai map		30	Split Shapefiles
		31	Dissolve
		32	Difference
		33	Line inter sections
	Analysis	34	sum Line length
Site Selection		35	Points in Polygon
LIDAR Introduction		36	Geo Processing
A-LIDAR Survey		37	Site Selection

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**Day 4**

Theory/Case studies/Animation	Topic	Ex. no	Lab session
A-Image View	Image Processing	38	LIDAR DEM
A-Reservoir		39	Shaded Relif
Site Selection - for Dam construction		40	slope
Site Selection - for House construction		41	Aspect
		42	contour - map from DEM
Pollution map	Interpolation	43	CO2 Distribution
Ground Water Distribution map		44	Cartography simple
Map Preparation	Cartography	45	Cartography easyPrint
	Topology concepts	46	Topology
Project Hints		47	Snapping
	Google Earth	48	Goggle earth use in QGIS
		49	Mini Project
Feed back collection		50	Mini Project

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**Training Details**

About the Trainers

All the trainers are have minimum 150 Hours of training experience and hands of industrial experience.

Training Practice

As the leader in continuing education, consulting, training, Magendhiran Consultants, offers the most state-of-the-art, cutting-edge training available. Our comprehensive curriculum courses are in length and include discussions, case studies, and problem-solving exercises which are taught by top GIS leaders who share their knowledge in an enthusiastic, interactive manner.




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**Instructor Profile: Mr. L.Iyappan B.Tech., M.Tech., (PhD) GIS.**

- A highly talented and result oriented 9 years of Industry experience in the field of GIS, Remote Sensing, Image Processing, GPS survey, Total Station Survey, Geophysical(GPR), LIDAR & Photogrammetry
- Completed M.Tech Remote Sensing in Institute of Remote Sensing, College of Engineering Guindy, Anna University.
- Qualified 3 times in GATE (Graduate Aptitude Test in Engineering) exams conducted by IITs and IISc.
- Technical Consultant for United Nations Development Program (UNDP).
- Life member of 'Indian Society of Remote Sensing' and 'Indian Society of Geomatics'
- Awarded QGIS Master by OSGeo forum USA, and ranked 2nd out of 5366 users.
- He is capable to handle 40 geospatial software like QGIS, ArcGIS, Microstation, Autodesk, Radan.
- Over 10 years experience in the various geospatial fields. Handled more than 200 employees to Execute the projects for the following areas by using Open source GIS software as well as commercial software
- Updated NHD (National Hydrographic Dataset) for USGS (United State of Geological Survey) for Louisiana, USA.
- Utility (Gas pipeline, Water pipelines, Electrical cables, Telecom cables & towers) network mapping and analysis projects for USA.
- LIDAR Point Processing and classification, Planimetric and topographic map prepared for Sanborn & VMR, USA in Digital Photogrammetry.
- Interpretation of Cartosat/KONOS satellite imagery to identify potential location to cell phone towers for Reliance communications, India and also for Bharthir Airtel.
- 1m Contour map prepared for Maharashtra Irrigation Department, Survey of India using DGPS survey and Digital Photogrammetry.
- Geophysical survey to identify location of pipelines (subsurface) and cables (subsurface) for Ministry of Electricity and Water, Bahrain by using GPR and GPS survey.
- Digitization of Toposheet of Azerbaijan country with all features in ArcGIS environment.
- Updated campus layout for Indian Institute of Technology, Madras in open source GIS.

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**Recently we conducted**

- United Nations Population Fund(UNFPA)-North Korea,
- Sardar Patel College Engineering, Mumbai
- RMK Engineering College, Chennai
- Karunya University, Coimbatore
- Kalassalingam University, Krishnankoil
- Bannari Amman Institute of Technology,Sathyamangalam
- SRM University, Ramapuram Campus
- Dr.MGR University, Chennai
- Dr.Sivanthi Adithan College of Engineering, Tiruchendur
- C.Abdul Hakkim College of Engineering, Vellore
- Rajarajeswari Engineering College, Chennai
- Jayam Engineering College, Dharmapuri
- SRM Easwari Engineering College, Chennai
- Arulmigu Meenakshi Amman College of Engineering, Kanchipuram
- Tajore Engineering College, Vandalur, Chennai
- Jaya Engineering College, Tiruninravur, Chennai
- DMI College of Engineering, Chennai
- Sankara University, Kanchipuram
- Periyar Maniyammal University, Thanjaour
- Rajarajeswari Engineering College, Chennai

An Article about our service was published by The Hindu news paper, Education plus on 27-Sep-2010. You can read from following link  
<http://www.thehindu.com/todays-paper/tp-features/tp-educationplus/article797762.ece>

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**Instructor Gallery:** A highly talented and result oriented 10 years of Industry experience in the field of GIS, Remote Sensing, Image Processing, GPS survey, Total Station Survey, Geophysical(GPR), LIDAR & Photogrammetry



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We conducted GIS Training Program for UNDP(United Nations Development Program) North Korea during October 2010,our program was recognized by international community, it is also international standards.



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We conducted GIS training for Final year Civil Engineering Students of **Bannariamman Institute of Technology, Sathyamangalam**. We also signed MOU during August 2011



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### Feed Back

#### Testimonials

- ✓ "We employed Magendhiran Consultancy Services on a Three week to oversee the implementation of Open source GIS. The depth of knowledge and breadth of experience, of the project manager enabled us to procure and implement within a short timeframe. We avoided many of the pitfalls that other authorities have experienced, and now have a corporate spatial data store, which serves data to our mapping applications. We are now in excellent shape to fully exploit GIS for the benefit of citizens, elected members and officers." **Director, United Nations Population Fund (UNDP), North Korea.**
- ✓ "The professional approach and the delivery of the training were second to none. The knowledge and background of the training staff mean that they can make the content applicable to each trainee. A great sense humor also helped the training experience. All delegates have given excellent feedback on their return to our offices." **Principal, Sardar Patel College of Engineering, Mumbai**
- ✓ "Very informative and well presented. Packed but enjoyable." **Principal, Dr.Sivanthi Aditanar College of Engineering, Tiruchendur, Tamil Nadu**
- ✓ "Very interesting and enjoyable course - would recommend. The practical examples were especially useful." **HOD- Civil, Kalasalingim University, Krishnankoil, Tamil Nadu**

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### Training Details

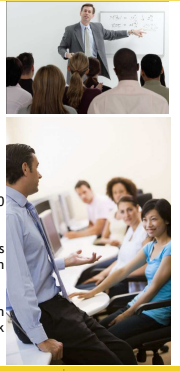
**Duration of the Course**  
All training are with case exercises and examination. Where required with the local languages(Tamil, Telugu).

**Venue:** Tiruvanmiyur, Chennai

**Course Duration:** 4 Days (Continuous Days/Week ends)

**Course Fee**  
Four day course fee is Rs.6000 as applicable for 20 participant including Course material (in soft copy).  
Four day course fee is Rs.5000( if you bring laptop) as applicable for 20 participant including Course material (in soft copy). You

Cheques/DD is to be drawn in favour of Magendhiran Consultancy Services payable at Kanchipuram one week before the training program.



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