



Dempo Charities Trust's  
DHEMPE COLLEGE OF ARTS & SCIENCE  
Miramar, Panaji-Goa

## Fundamentals of GIS

### Course Objective

To acquaint students with basic satellite image interpretation and analysis

### Course Content

- Introduction to GIS, Elements of GIS
- Map elements, Data representation, Co-ordinate systems
- Spatial data models, Vector, Raster
- Data Acquisition, GPS, Satellite imagery, Georeferencing
- Digitisation, Linking attribute data to spatial data
- Layout Generation and Data Map Export

### Course Outcomes

Understand the principles behind remote sensing techniques

Use of geographic information system software

Importing and editing files, georeferencing and map making

Creating vector layers and classification by attributes

ATTENDANCE for Non-Conventional Certificate Course "Fundamentals of GIS" from 06<sup>th</sup> November 2019 to 12<sup>th</sup> November 2019.

Sr No	Name	06.11.19	07.11.19	08.11.19	09.11.19	11.11.19	12.11.19
1	Rachana Pednekar	<u>RPed</u>	<u>RPed</u>	<u>RPed</u>	<u>RPed</u>	<u>RPed</u>	<u>RPed</u>
2	Mansi Raja	<u>MR</u>	<u>MR</u>	<u>MR</u>	<u>MR</u>	<u>MR</u>	<u>MR</u>
3	Sejal Naik	<u>SN</u>	<u>SN</u>	<u>SN</u>	<u>SN</u>	<u>SN</u>	<u>SN</u>
4	Andrea Vaz	<u>AV</u>	<u>AV</u>	<u>AV</u>	<u>AV</u>	<u>AV</u>	<u>AV</u>
5	Meldroy Vas	<u>MV</u>	<u>MV</u>	<u>MV</u>	<u>MV</u>	<u>MV</u>	<u>MV</u>
6	Sayed Mohamad Imran	<u>MI</u>	<u>MI</u>	<u>MI</u>	<u>MI</u>	<u>MI</u>	<u>MI</u>
7	Sejal Halankar	<u>SH</u>	<u>SH</u>	<u>SH</u>	<u>SH</u>	<u>SH</u>	<u>SH</u>
8	Anisha Naik	<u>AN</u>	<u>AN</u>	<u>AN</u>	<u>AN</u>	<u>AN</u>	<u>AN</u>
9	Gauravi Kambli	<u>GK</u>	<u>GK</u>	<u>GK</u>	<u>GK</u>	<u>GK</u>	<u>GK</u>

D. S. Parab  
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Course Coordinator



**Dempo Charities Trust's  
Dhempe College of Arts and Science  
Panaji, Goa**

**Geology Department**

**Skill Development Course: "Fundamentals of GIS"**

**Academic Year 2019 – 2020**

Geographical Information System (GIS) is a framework designed to capture, store, manipulate, analyze, manage, and present spatial or geographic data. It is a multi-disciplinary and evolving technology. A knowledge of this system equips the student with a valuable skill which will promote their employability in the future.

In view of the above, the department of Geology, Dhempe College of Arts and Science, Miramar conducted a skill development certificate course in Fundamentals of GIS. The course was of 30 hours duration. The course began on 6<sup>th</sup> of November 2019 and ended on 12<sup>th</sup> of November 2019. A total of nine students were enrolled. The lectures and practicals were conducted in the department by Dr. Manoj Ibrampurkar and Mr. Aliston D'Souza. The students were introduced to the basic concepts of GIS and were provided a hands-on training of the QGIS software. As a culmination to the course, the students were given a project to digitize the map of Goa and then to mark their locality along with the major roads, water bodies, vegetation and landmarks.

The attendance record of the above said course and record of feedback from students has been maintained in the department. The bills of the course have been settled. The certificates have been issued to the participating students.



**Sd-**  
**HoD, Geology**