

Certificate Course in Surveying

January 2019



Department of Geography

Ahmednagar Jilha Maratha Vidya Prasark samaj's

Shri Mulikadevi College, Nighoj

Tal. Parner, Dist. Ahmednagar

Objective

- 1) To create an interest in Surveying.
- 2) To introduce nature and scope of Surveying.
- 3) Students are expected to understand the principles of Surveying.
- 4) It is expected to inspire and boost the interest of students towards the subject, which will be helpful to avoid the use of stereotype way of study and its application to the novelty in job opportunities.
- 5) It will enable to develop interdisciplinary approach in the subject.
- 6) To enable the students to use various Projections and Cartographic Techniques.
- 7) To acquaint the students with basic of Statistical data.
- 8) To acquaint the students with the principles of surveying, its importance and utility in the geographical study.

Job Opportunities:

1. Surveyor
2. Cartographer
3. Technical Assistant in industry or research center
4. Instructor for map making and related work in schools and colleges
5. Self employment: Running a small scale map making industry or production of different type of maps.
6. Sales representative for GIS software

Job Opportunities:

Chapter No.	Learning Points and Exercises	Theory Periods	Practical Periods
1	Directions 1. Various Methods of deciding North direction True, Magnetic and Grid North	05	01
2	Definition of Surveying 1. Introduction and Definition 2. Nature and Scope	03	00
3	Types of Surveying 1. Plane Table Survey. i. Radiation Method ii. Intersection methods 2. Prismatic Compass Surveying Methods: i. Open Travers ii. Close Travers 3. GPS Survey & Plotting Finding Latitude (X), Longitude (Y) and Altitude (Z). Plotting of X and Y on graph paper 4. Dumpy Level Survey Plotting i. Rise and Fall Method ii. Collimation Plane Method	12	05
4	Measurement of Land 1. Use of Plane table 2. Use of GPS	00	10

Course Outcome:

1. Understand the all fundamental concept of GIS, potential of GIS, objectives of GIS, elements of GIS and GIS applications in different field.
2. Extract the knowledge and information about geospatial analysis and database query and GIS data analysis the various concept and problems in analysed in GIS environment.
3. Understand the concept of map, projections, and coordinate systems and basic of the same for different purposes in geography.
4. GIS and GPS applied in the various kinds of fields, agriculture, populations, watershed planning and land use planning.

Faculty:

Sr. No.	Date & Time	Learning Points and Exercises	Name of Professor
1	15/01/2019	Inaugural Function	Dr. Shivram Korde
2	16/01/2019 11.15 to 12.30	Directions 1. Various Methods of deciding North direction True, Magnetic and Grid North	Prof. Manohar Erande
3	17/01/2019 11.15 to 12.30	Definition of Surveying	Prof. Jyotsna Mhaske
4	18/01/2019 11.15 to 12.30	1. Plane Table Survey. i. Radiation Method	Prof. Swati Pawar
5	19/01/2019 11.15 to 12.30	1. Plane Table Survey. ii. Intersection methods	Prof. Popat Sumbre
6	21/01/2019 11.15 to 12.30	2. GPS Survey & Plotting	Prof. Bharat Bringal
7	22/01/2019 11.15 to 12.30	3. Prismatic Compass Surveying Methods: i. Open Travers ii. Close Travers	Prof. Sanjay Aher
8	23/01/2019 11.15 to 12.30	4. Dumpy Level Survey Plotting i. Rise and Fall Method ii. Collimation Plane Method	Prof. Ashok Thokal
9	24/01/2019 11.15 to 12.30	5. Total Station Survey	Mr. Ajaykumar Jadhav
10	25/01/2019 11.15 to 12.30	Reading of Land Record	Mr. Rahul Mandlik

Duration of the Course: Thirty Six Hours**Scheme of Study: Theory – 56%, Practical – 44%.****No. of times offered in a year: Once****Fees: Rs. 100/-****Maximum Participation: 25 students****Certification: All successful students shall be awarded a certificate.**