

Loknete Dr. Balasaheb Vikhe Patil (Padmabhushan Awardee)
Pravara Rural Education Society's
Arts Commerce and Science College Alkuti
Tal-Parner Dist- Ahmednagar
Department of Geography

Certificate Course in Basics of Global Positioning System Syllabus

Course Introduction-

This Course will Provide fundamental information on the Global Position System I.e.GPS. Topic included are the history and development of Navigation and GPS, an overview of the technological requirements for the system a review of how system works and a discussion of various application that can incorporate a GPS.The course will be divided into two Parts First is the theory part where the system will be discussed and a Practical Part,which will allow students the opportunity to operate GPS on filed.

Aims & Objectives:

The aim of this course is to aware the students regarding the technical shift of Geography subject.GPS is the developing techniques used in many disciplines. Getting a job will be easy if students are aware about the new emerging technical knowledge in Geography.

Methods of Instruction:

Weekly classroom lectures will be supplemented with audio-Visual materials and group discussion. Practical session will be conducted by performing various hand on activities under the supervision of the instructor. Some exercise may require temporary travel off campus in personal automobiles. Every safety precaution should be considered when conduction laboratory exercise off campus

Eligibility – SYBA & TYBA (Geography)

Syllabus of the Course

Sr.No	Topic		Periods	
	Theory	Practical	Theory (1.5 hour)	Practical (2 Hour)
1	Introduction to GPS instrument	Introduction to GPS instrument	01	02
2	History of GPS		02	02
3	How GPS Works	Locating Position	03	02
4	Review of Projections and Datum	Waypoints	03	02
5	Satellites	Tracks, Routes	02	02
6	Signals	Map Source CDROM	01	02
7	Receivers	Practise with GPS	02	02
8	Positioning Modes	Mission Planning, Data Dictionary	02	02
9	Differential Positioning	Differential Correction	02	02
10	Error and Biases	Class Project	02	04
11	Applications of GPS	Class Project	02	03
12	Future of GPS	Class Project	02	03
		Total	24	28
		Total		52