



“Dissemination of Education through Knowledge, Science and Culture”.

--Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

**Raje Ramrao Mahavidyalaya,**

**Jath**

**Department of Geography**

Report on

**A Certificate Course in  
'Introduction to GPS'**

By

Coordinator

**Mr. Vishal P. Koli**

*Department of Geography, Raje Ramrao Mahavidyalaya,  
Jath*

Submitted to

**Internal Quality Assurance Cell (IQAC)**

*Raje Ramrao Mahavidyalaya, Jath*

(2021 – 22)

**Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's**  
**RAJE RAMRAO MAHAVIDYALAYA, JATH**

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**DEPARTMENT OF GEOGRAPHY**

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**Date: 16/11/2021**

To,  
The Principal,  
Raje Ramrao Mahavidyalaya,  
Jath.


**Subject:** Regarding to Certificate Course in '**Introduction to GPS**'

**Respected Sir,**

With reference to the above cited subject we are going to start 30 days **Certificate Course in 'Introduction to GPS'** in first term. Consider the above request and oblige.

Thanking You,

Yours Faithfully

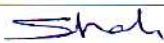
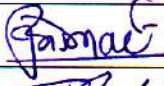
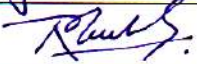

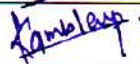
  
**Head,**  
**Department of Geography**  
**R. R. College, Jath, Sangli**





**DEPARTMENT OF GEOGRAPHY**  
Certificate Course in 'Introduction to GPS'  
**Academic Year 2021-2022**  
**BOARD OF STUDIES**  
**Notice of Meeting**

**Date: 16<sup>th</sup> Nov. 2021**

The meeting of the members of BOS in certificate Course in Introduction to GPS is held on **20<sup>th</sup> Nov. 2021** for the preparation of syllabus. The following members are present and prepared the syllabus of above course and Submitted to college authority.

<b>Name</b>	<b>Position</b>	<b>Signature</b>
Mr. Y. S. Shinde	Chairman	
Mr. N. G. Lawte	Member	
Mr. P. M. Kamble	Member	
Mr. V. P. Koli	Member	
Mrs. V. P. Kamble	Member	

  
**Mr. Vishal P. Koli**  
Coordinator

  
**Mr. Y. S. Shinde**  
Head of Department

**Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's**  
**RAJE RAMRAO MAHAVIDYALAYA, JATH**

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**DEPARTMENT OF GEOGRAPHY**

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**Date-** 22<sup>th</sup> November 2021

**NOTICE**

All the students from B. A. III are hereby informed that, our college is going to start a certificate course entitled 'Introduction to GPS' for this academic year. All the students should take admissions as earlier possible.



Coordinator



 Head



Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's  
**Raje Ramrao Mahavidyalaya, Jath**  
Dist. Sangli-416 404 (MS)  
(Affiliated to Shivaji University, Kolhapur)

## **Certificate Course**

### **Syllabus**

#### **TITLE- Introduction to GPS**

##### **Objectives:**

1. To enhance students' ability to apply their specialized knowledge in the geographical domain.
2. To develop employability skills and competencies to serve the job requirements in the society.
3. Inspire students to develop the abilities among them to offer services in the entrepreneurial environment.

##### **Outcomes:**

1. Good employability skills as per current need of the society to compete in the competitive world.
2. They will have good understanding about proper utilization of natural resources through geographical knowledge with the help of Remote Sensing..
3. Develop research interest to solve critical and emerging societal issues related to geography and the surrounding environment with the help of Remote Sensing.
4. Students will become familiar with modern techniques of geography.
5. Students will be prepared to apply their skills in professional careers.

1. Duration of course: 45 Days
2. Eligibility to course: Students studying in B. A.
3. Admission: On the basis of merit

##### **Evaluation System:**

All the students will be continuously evaluated by,

- a. Attendance 10M
- b. One final examination (One papers) 40 M

Nature of Theory question paper:

1. Exam is of Objective type. Total 20 objective type questions and each question carrying 2 marks. (40 marks)

**Grades: A grade**= above 75, **B grade** = above 60, **C grade** = above 50

**Certification:** A certificate will be issued on successful completion of the course.

### Syllabus

- Module 1.** Introduction to GPS (08 Lectures)  
Types of GPS System
- Module 2.** Space Control and User Segment (08 Lectures)  
GPS Satellite, Working Principals of GPS
- Module 3.** Sources of GPS errors (07 Lectures)  
Differential GPS
- Module 4.** GNSS & GIS Integration (07 Lectures)  
Application of GPS

### **References:**

1. Adriaans, P., and D. Zantinge. 1996. Data Mining. New York: Addison-Wesley.
2. Bernhardensen, Tor. 1999. Geographic Information Systems: An Introduction. Toronto: John Wiley & Sons, Inc.
3. Bishop, Michael P. and Shroder, John F. (Eds.) 2004. Geographic Information Science and Mountain Geomorphology. Chichester, U.K.: Praxis Publishing (Springer).11
4. Bracken, Ian and Webster, Christopher. 1990. Information Technology in Geography and Planning (Including Principles of GIS). London & New York: Routledge.
5. Burrough, Peter A. and McDonnell, Rachael A. 1998. Principles of Geographical Information Systems – Spatial Information Systems and Geostatistics. Oxford University Press

## A Certificate Course in Introduction to GPS

### Enrollment List

<b>Sr. No.</b>	<b>Roll No.</b>	<b>Name</b>	<b>Gender</b>	<b>Class</b>
1.	1931	*Ballari Bharti Sunkana	F	B. A. III
2.	1932	*Bandage Priyanka Maruti	F	B. A. III
3.	1933	*Chaugule Priyanka Tukaram	F	B. A. III
4.	1934	*Chavan Priyanka Suresh	F	B. A. III
5.	1935	*Jadhav Soniya Ram	F	B. A. III
6.	1936	*Kalal Namrata Sanjay	F	B. A. III
7.	1937	*Kamble Shilpa Gangappa	F	B. A. III
8.	1938	*Karenawar Sneha Subhash	F	B. A. III
9.	1939	*Kokare Ujwala Abasaheb	F	B. A. III
10.	1940	*Mali Ashwini Ramchandra	F	B. A. III
11.	1941	*Mali Ashwini Vijay	F	B. A. III
12.	1942	*Mali Rupali Rajaram	F	B. A. III
13.	1943	*Mane Sakshi Sanjay	F	B. A. III
14.	1944	*Nilajagi Tejaswini Kumar	F	B. A. III
15.	1945	*Patole Bhagyashri Nagappa	F	B. A. III
16.	1946	*Pawar Shivani Vijay	F	B. A. III
17.	1947	*Sabale Sushama Arun	F	B. A. III
18.	1948	*Sargar Deepali Lakshman	F	B. A. III
19.	1949	*Sawant Priyanka Ramchandra	F	B. A. III
20.	1950	*Torane Dipali Balu	F	B. A. III
21.	1951	*Waghamare Ankita Rajaram	F	B. A. III
22.	1952	Aiwale Prathmesh Ramesh	M	B. A. III
23.	1953	Bhosale Anil Baban	M	B. A. III
24.	1954	Chougule Abhijit Satish	M	B. A. III
25.	1955	Dudhal Vinod Dadaso	M	B. A. III
26.	1956	Jadhav Digambar Shrikant	M	B. A. III
27.	1957	Kale Sagar Devappa	M	B. A. III
28.	1958	Khandekar Nagappa Shivaji	M	B. A. III
29.	1959	Khandekar Rupali Suresh	M	B. A. III



30.	1960	Kharat Abhijit Rajesh	M	B. A. III
31.	1961	Mane Amit Sanjay	M	B. A. III
32.	1962	Mane Prashant Tanaji	M	B. A. III
33.	1963	Mane Sachin Annappa	M	B. A. III
34.	1964	Pathrut Abhishek Sudhakar	M	B. A. III
35.	1965	Pawar Avinash Ramesh	M	B. A. III
36.	1966	Sale Avinash Sanjay	M	B. A. III
37.	1967	Salunkhe Ranjit Shivaji	M	B. A. III
38.	1968	Tamboli Ayaj Kabir	M	B. A. III
39.	1969	Torane Tukaram Balu	M	B. A. III
40.	1970	Vagare Suryaba Ankush	M	B. A. III
41.	1971	Bankar Vishal Balu	M	B. A. III
42.	1972	Yamgar Prashant Dnyanu	M	B. A. III

  
COORDINATOR

  
 HEAD

**Department of Geography**  
**Certificate Course: Attendance Sheet**

Roll No.	Name	01/12/21	02/12/21	03/12/21	04/12/21	05/12/21	07/12/21	08/12/21	09/12/21	
1931	*Ballari Bharti Sunkana	AB	BL	BL	BL	BL	BL	AB	BL	
1932	*Bandage Priyanka Maruti	BL	BL	BL	BL	BL	BL	BL	BL	
1933	*Chaugule Priyanka Tukaram	AB	AB	AB	AB	AB	AB	AB	AB	
1934	*Chavan Priyanka Suresh	BL	BL	BL	BL	BL	BL	BL	BL	
1935	*Jadhav Soniya Ram	BL	BL	BL	AB	BL	BL	BL	BL	
1936	*Kalal Namrata Sanjay	BL	BL	BL	BL	BL	BL	AB	BL	
1937	*Kamble Shilpa Gangappa	S. G. Kamble	AB	S. G. Kamble	S. G. Kamble	S. G. Kamble	S. G. Kamble	S. G. Kamble	S. G. Kamble	
1938	*Karenawar Sneha Subhash	BL	BL	BL	BL	BL	BL	BL	BL	
1939	*Kokare Ujwala Abasaheb	BL	BL	AB	BL	BL	BL	BL	BL	
1940	*Mali Ashwini Ramchandra	BL	BL	BL	BL	AB	BL	BL	BL	
1941	*Mali Ashwini Vijay	BL	BL	BL	BL	BL	BL	BL	BL	
1942	*Mali Rupali Rajaram	Mali RR	AB	Mali RR	Mali RR	Mali RR	Mali RR	Mali RR	Mali RR	
1943	*Mane Sakshi Sanjay	S	S	S	S	S	S	S	S	
1944	*Nilajagi Tejaswini Kumar	T. K. Nilajagi	T. K. Nilajagi	T. K. Nilajagi	T. K. Nilajagi	AB	T. K. Nilajagi	T. K. Nilajagi	T. K. Nilajagi	
1945	*Patole Bhagyashri Nagappa	AB	BL	BL	BL	BL	BL	BL	BL	
1946	*Pawar Shivani Vijay	BL	BL	BL	BL	BL	AB	BL	BL	
1947	*Sabale Sushama Arun	BL	BL	AB	BL	BL	BL	BL	BL	
1948	*Sargar Deepali Lakshman	Deepali	Deepali	Deepali	Deepali	Deepali	Deepali	Deepali	Deepali	
1949	*Sawant Priyanka Ramchandra	AB	AB	AB	←					
1950	*Torane Dipali Balu	←					AB	←		



1951	*Waghamare Ankita Rajaram	AB	Waghamare	Waghamare	Waghamare	AB	Waghamare	Waghamare	Waghamare
1952	Aiwale Prathmesh Ramesh	Aiwale	Aiwale	Aiwale	Aiwale	Aiwale	Aiwale	Aiwale	Aiwale
1953	Bhosale Anil Baban	Bhosale	Bhosale	Bhosale	Bhosale	AB	Bhosale	Bhosale	Bhosale
1954	Chougule Abhijit Satish	Chougule	Chougule	Chougule	Chougule	Chougule	Chougule	Chougule	Chougule
1955	Dudhal Vinod Dadaso	Dudhal	Dudhal	Dudhal	Dudhal	Dudhal	Dudhal	Dudhal	Dudhal
1956	Jadhav Digambar Shrikant	D.S.J	D.S.J	D.S.J	D.S.J	D.S.J	D.S.J	D.S.J	D.S.J
1957	Kale Sagar Devappa								
1958	Khandekar Nagappa Shivaji	Khandekar	Khandekar	Khandekar	Khandekar	Khandekar	Khandekar	Khandekar	Khandekar
1959	Khandekar Rupali Suresh	Rupali	Rupali	Rupali	Rupali	Rupali	Rupali	Rupali	Rupali
1960	Kharat Abhijit Rajesh	Kharat	Kharat	Kharat	Kharat	Kharat	Kharat	Kharat	Kharat
1961	Mane Amit Sanjay	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane
1962	Mane Prashant Tanaji								
1963	Mane Sachin Annappa	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane
1964	Pathrut Abhishek Sudhakar	Pathrut	Pathrut	Pathrut	Pathrut	Pathrut	Pathrut	Pathrut	AB
1965	Pawar Avinash Ramesh	Avinash	Avinash	Avinash	Avinash	Avinash	Avinash	Avinash	Avinash
1966	Sale Avinash Sanjay	Sale	Sale	Sale	Sale	Sale	Sale	Sale	Sale
1967	Salunkhe Ranjit Shivaji	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe
1968	Tamboli Ayaj Kabir								
1969	Torane Tukaram Balu	T.B.Torane	T.B.Torane	T.B.Torane	T.B.Torane	T.B.Torane	T.B.Torane	T.B.Torane	T.B.Torane
1970	Vagare Suryaba Ankush	Vagare	Vagare	Vagare	Vagare	Vagare	Vagare	Vagare	Vagare
1971	Bankar Vishal Balu	Bankar	AB	Bankar	AB	Bankar	AB	Bankar	AB
1972	Yamgar Prashant Dnyanu								



**Department of Geography**  
**Certificate Course: Attendance Sheet**

Roll No.	Name	10/12/21	11/12/21	13/12/21	14/12/21	15/12/21	16/12/21	17/12/21	18/12/21
1931	*Ballari Bharti Sunkana	<u>Bh.</u>	AB	<u>Bh.</u>	AB	<u>Bh.</u>	AB	AB	<u>Bh.</u>
1932	*Bandage Priyanka Maruti	AB	<u>banda</u>	AB	<u>banda</u>	AB	AB	<u>banda</u>	<u>banda</u>
1933	*Chaugule Priyanka Tukaram	AB	AB	AB	AB	AB	AB	—	—
1934	*Chavan Priyanka Suresh	AB	<u>pse</u>	<u>pse</u>	<u>pse</u>	<u>pse</u>	<u>pe</u>	<u>pse</u>	<u>pse</u>
1935	*Jadhav Soniya Ram	<u>Soniya</u>	AB	<u>Soniya</u>	AB	<u>Soniya</u>	AB	<u>Soniya</u>	<u>Soniya</u>
1936	*Kalal Namrata Sanjay	<u>Namral</u>	<u>Namral</u>	<u>Namral</u>	<u>Namral</u>	AB	<u>Namral</u>	<u>Namral</u>	<u>Namral</u>
1937	*Kamble Shilpa Gangappa	S.G.K	S.G.K	AB	S.G.K	S.G.K	S.G.K	S.G.K	S.G.K
1938	*Karenawar Sneha Subhash	<u>SN</u>	<u>SN</u>	<u>SN</u>	<u>SN</u>	<u>SN</u>	<u>SN</u>	AB	<u>SN</u>
1939	*Kokare Ujwala Abasaheb	<u>OKS</u>	AB	<u>OKS</u>	<u>OKS</u>	<u>OKS</u>	AB	<u>OKS</u>	<u>OKS</u>
1940	*Mali Ashwini Ramchandra	<u>Ashwini</u>	<u>Ashwini</u>	<u>Ashwini</u>	<u>Ashwini</u>	<u>Ashwini</u>	<u>Ashwini</u>	<u>Ashwini</u>	<u>Ashwini</u>
1941	*Mali Ashwini Vijay	<u>Amali</u>	<u>Amali</u>	<u>Amali</u>	AB	<u>Amali</u>	<u>Amali</u>	<u>Amali</u>	<u>Amali</u>
1942	*Mali Rupali Rajaram	Mali.R.R	Mali.R.R	Mali.R.R	Mali.R.R	Mali.R.R	Mali.R.R	Mali.R.R	Mali.R.R
1943	*Mane Sakshi Sanjay	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>	AB	<u>S</u>	<u>S</u>
1944	*Nilajagi Tejaswini Kumar	<u>T.K.Nilajagi</u>	AB	<u>T.K.Nilajagi</u>	<u>T.K.Nilajagi</u>	<u>T.K.Nilajagi</u>	<u>T.K.Nilajagi</u>	<u>T.K.Nilajagi</u>	<u>T.K.Nilajagi</u>
1945	*Patole Bhagyashri Nagappa	<u>Bpatole</u>	<u>Bpatole</u>	<u>Bpatole</u>	<u>Bpatole</u>	<u>Bpatole</u>	<u>Bpatole</u>	<u>Bpatole</u>	<u>Bpatole</u>
1946	*Pawar Shivani Vijay	<u>Pawar</u>	<u>Pawar</u>	AB	<u>Pawar</u>	<u>Pawar</u>	<u>Pawar</u>	AB	<u>Pawar</u>
1947	*Sabale Sushama Arun	<u>Sabale</u>	<u>Sabale</u>	<u>Sabale</u>	<u>Sabale</u>	<u>Sabale</u>	<u>Sabale</u>	<u>Sabale</u>	<u>Sabale</u>
1948	*Sargar Deepali Lakshman	<u>Deepali</u>	<u>Deepali</u>	<u>Deepali</u>	<u>Deepali</u>	<u>Deepali</u>	<u>Deepali</u>	<u>Deepali</u>	<u>Deepali</u>
1949	*Sawant Priyanka Ramchandra	—	—	—	AB	—	—	—	—
1950	*Torane Dipali Balu	AB	—	—	—	—	—	—	—





1951	*Waghamare Ankita Rajaram	Waghamare	AB	Waghamare	Waghamare	Waghamare	Waghamare	Waghamare	Waghamare
1952	Aiwale Prathmesh Ramesh	Aiwale	Aiwale	Aiwale	Aiwale	Aiwale	Aiwale	Aiwale	Aiwale
1953	Bhosale Anil Baban	Bhosale	Bhosale	Bhosale	AB	Bhosale	AB	Bhosale	Bhosale
1954	Chougule Abhijit Satish	Chougule	Chougule	Chougule	Chougule	Chougule	Chougule	Chougule	Chougule
1955	Dudhal Vinod Dadaso	Dudhal	Dudhal	Dudhal	Dudhal	Dudhal	Dudhal	Dudhal	Dudhal
1956	Jadhav Digambar Shrikant	<u>D.SI</u>	<u>D.SI</u>	<u>D.SI</u>	<u>D.SI</u>	<u>D.SI</u>	<u>D.SI</u>	<u>D.SI</u>	<u>D.SI</u>
1957	Kale Sagar Devappa	-----							
1958	Khandekar Nagappa Shivaji	Khandekar	Khandekar	Khandekar	Khandekar	Khandekar	Khandekar	Khandekar	Khandekar
1959	Khandekar Rupali Suresh	Rupali	Rupali	Rupali	Rupali	Rupali	Rupali	Rupali	Rupali
1960	Kharat Abhijit Rajesh	Kharat	Kharat	Kharat	Kharat	Kharat	Kharat	Kharat	Kharat
1961	Mane Amit Sanjay	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane
1962	Mane Prashant Tanaji	-----							
1963	Mane Sachin Annappa	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane
1964	Pathrut Abhishek Sudhakar	Pathrut	Pathrut	Pathrut	Pathrut	Pathrut	Pathrut	Pathrut	Pathrut
1965	Pawar Avinash Ramesh	Avinash	Avinash	Avinash	Avinash	Avinash	Avinash	Avinash	Avinash
1966	Sale Avinash Sanjay	Avinash	Avinash	Avinash	Avinash	Avinash	Avinash	Avinash	Avinash
1967	Salunkhe Ranjit Shivaji	Salunkhe	Salunkhe	AB	Salunkhe	AB	Salunkhe	AB	Salunkhe
1968	Tamboli Ayaj Kabir	-----							
1969	Torane Tukaram Balu	T.B.Torane	T.B.Torane	T.B.Torane	T.B.Torane	T.B.Torane	T.B.Torane	T.B.Torane	T.B.Torane
1970	Vagare Suryaba Ankush	Vagare	Vagare	Vagare	Vagare	Vagare	Vagare	Vagare	Vagare
1971	Bankar Vishal Balu	Bankar	AB	Bankar	Bankar	Bankar	Bankar	Bankar	Bankar
1972	Yamgar Prashant Dnyanu	-----							







1951	*Waghamare Ankita Rajaram	AB	Waghamare	Waghamare	AB	Waghamare	Waghamare	Waghamare	Waghamare
1952	Aiwale Prathmesh Ramesh	Aiwale	Aiwale	AB	Aiwale	Aiwale	AB	Aiwale	Aiwale
1953	Bhosale Anil Baban	(Anil)	(Anil)	(Anil)	AB	Anil	Anil	(Anil)	(Anil)
1954	Chougule Abhijit Satish	AB	Chougule	Chougule	Chougule	Chougule	AB	Chougule	Chougule
1955	Dudhal Vinod Dadaso	Dudhal	Dudhal	Dudhal	Dudhal	AB	Dudhal	Dudhal	Dudhal
1956	Jadhav Digambar Shrikant	D.S.J	AB	D.S.J	D.S.J	D.S.J	D.S.J	D.S.J	D.S.J
1957	Kale Sagar Devappa								
1958	Khandekar Nagappa Shivaji	Khandekar	Khandekar	AB	Khandekar	Khandekar	Khandekar	Khandekar	Khandekar
1959	Khandekar Rupali Suresh	Rupali	Rupali	Rupali	Rupali	AB	Rupali	Rupali	Rupali
1960	Kharat Abhijit Rajesh	Rohat	AB	Rohat	Rohat	Rohat	Rohat	Rohat	Rohat
1961	Mane Amit Sanjay	(Amit)	(Amit)	(Amit)	(Amit)	(Amit)	(Amit)	AB	(Amit)
1962	Mane Prashant Tanaji				AB				
1963	Mane Sachin Annappa	AB	Sachin	Sachin	Sachin	Sachin	AB	Sachin	Sachin
1964	Pathrut Abhishek Sudhakar	Pathrut	Pathrut	AB	Pathrut	Pathrut	Pathrut	AB	Pathrut
1965	Pawar Avinash Ramesh	Avinash	Avinash	Avinash	AB	Avinash	Avinash	Avinash	Avinash
1966	Sale Avinash Sanjay	ASSAL	AB	ASSAL	ASSAL	ASSAL	ASSAL	ASSAL	ASSAL
1967	Salunkhe Ranjit Shivaji	Bsawale	Bsawale	Bsawale	Bsawale	Bsawale	AB	Bsawale	Bsawale
1968	Tamboli Ayaj Kabir								
1969	Torane Tukaram Balu	T.B.T	AB	T.B.T	T.B.T	T.B.T	T.B.T	AB	T.B.T
1970	Vagare Suryaba Ankush	Vagare	Vagare	Vagare	AB	Vagare	Vagare	Vagare	Vagare
1971	Bankar Vishal Balu	AB	(Vishal)	(Vishal)	(Vishal)	(Vishal)	AB	(Vishal)	(Vishal)
1972	Yamgar Prashant Dnyanu								



**Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's**  
**RAJE RAMRAO MAHAVIDYALAYA, JATH**

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**DEPARTMENT OF GEOGRAPHY**

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**Date-** 31<sup>th</sup> December 2021

**NOTICE**

All the students of Introduction to GPS certificate course are hereby informed that, the final exam of our Course will be conduct on 4<sup>th</sup> January 2022 at 11.00 am in Room No. 40. All the students should attend the same on time.

  
Course Coordinator

  
 Head

# राजे रामराव महाविद्यालय, जत

## भूगोल विभाग

### जीपीएसची ओळख (Introduction to GPS)

एकूण गुण- ४०

विद्यार्थ्यांचे नाव: \_\_\_\_\_ रोल नं. \_\_\_\_\_

दिनांक: ०४/०१/२०२२

मो. नं. \_\_\_\_\_

१. GNSS प्रणाली \_\_\_\_\_ आहेत.

अ. जीपीएस ब. ग्लोनास क. गॅलिलिओ ड. वरील सर्व

२. GPS वरील प्रकल्प कोणत्या वर्षी सुरू करण्यात आला?

अ. १९७० ब. १९७१ क. १९७२ ड. १९७३

३. ग्लोबल पोजिशनिंग सिस्टम (GPS) \_\_\_\_\_ द्वारे ऑपरेट केली जाते?

अ. रशियन स्पेस फोर्स ब. चीन स्पेस फोर्स  
क. युनायटेड स्टेट्स स्पेस फोर्स ड. फ्रेंच हवाई आणि अंतराळ दल

४. GPS वर प्राप्तकर्ता वेगवेगळ्या \_\_\_\_\_ कडून प्राप्त झालेल्या डेटाच्या आधारे स्वतःचा वेळ आणि स्थितीची गणना करतो.

अ. उपग्रह ब. रेडिओ लहरी क. अणु घड्याळे ड. वरीलपैकी काहीही नाही

५. अचूक वेळेची माहिती देण्यासाठी \_\_\_\_\_ GPS च्या उपग्रहांवर उपस्थित आहे.

अ. अँटेना ब. ट्रान्सपॉन्डर क. अणु घड्याळ ड. वरील सर्व

६. GPS च्या नक्षत्रात किमान किती उपग्रह कार्यरत आहेत?

अ. २४ ब. २५ क. २६ ड. २७

७. कोणत्या देशाने GPS सह समकालीन GLONASS विकसित केले?

अ. चीन ब. भारत क. नेपाळ ड. रशिया

८. नेव्हिगेशनसाठी गॅलिलिओ प्रणाली \_\_\_\_\_ द्वारे चालविली जाते.

अ. चीन ब. भारत क. युरोप ड. रशिया

९. भारतीयांद्वारे संचालित जीपीएस \_\_\_\_\_ आहे.

अ. होकायंत्र ब. ग्लोनास क. गॅलिलिओ ड. NavIC

१०. जीपीएस \_\_\_\_\_ द्वारे देऊ केलेल्या सेवा?

अ. पोजिशनिंग, नेव्हिगेशन आणि वेळ      ब. प्रदूषण, नेव्हिगेशन आणि तापमान

क. स्थिती, नेव्हिगेशन आणि तापमान      ड. स्थान, नेटवर्क आणि वेळ

११. पृथ्वीच्या पृष्ठभागावरील किती उपग्रह वापरले जातात जेणेकरून स्थान तयार करता येईल?

अ. तीन      ब. चार      क. पाच      ड. सहा

१२. \_\_\_\_\_ उपग्रह वापरून उपकरणाची उंची मोजली जाऊ शकते.

अ. पहिला      ब. दुसरा      क. तिसऱ्या      ड. चौथा

१३. GPS मध्ये विभाजन केलेले घटक \_\_\_\_\_ म्हणून ओळखले जातात.

अ. विभाग      ब. फ्रेम्स      क. विभाजने      ड. पॅकेट्स

१४. GPS मध्ये उपस्थित असलेले विभाग \_\_\_\_\_ आहेत.

अ. जागा      ब. ग्राउंड कंट्रोल      क. वापरकर्ता उपकरणे      ड. वरील सर्व

१५. भौगोलिक स्थान निश्चिती (जी.पी.एस.) तंत्राचा उपयोग खालीलपैकी कोणत्या क्षेत्रात होतो ?

अ. पदभ्रमण      ब. पर्यावरण      क. प्रवासातील मार्गदर्शन      ड. वरीलपैकी सर्व.

१६. सध्या भारताची खालीलपैकी कोणती जी.पी.एस. यंत्रणा आहे ?

अ. IRNSS      ब. कंपास      क. Galileo      ड. GLANSS

१७. अभीक्षेत्रिय आधारसामग्री प्रतिमान प्रामुख्याने किती मूलभूत प्रकारांमध्ये विभागले जाते.

अ. ४      ब. ३      क. ५      ड. २

१८. GNSS चा लॉगफॉर्म .....आहे.

A. Global Navigation Satellite System      B. Government Navigation Satellite System

C. Global Navigation Server System D. None of the Above

१९. रेखापुंज आधारसामग्रीला .....म्हणतात.

A. Vector Data B. Raster Data      C. Spatial Data      D. None of the Above

२०. भौगोलिक स्थान निश्चिती (जी.पी.एस.) तंत्राचा उपयोग खालीलपैकी ..... क्षेत्रात केला जातो

अ. पदभ्रमण      ब. पर्यावरण      क. प्रवासातील मार्गदर्शन      ड. वरीलपैकी सर्व

श्री स्वामी विवेकानंद शिक्षण संस्था संचालित  
राजे रामराव महाविद्यालय, जत

भूगोल विभाग

जीपीएसची ओळख (Introduction to GPS)

विद्यार्थ्यांचे नाव: कमाल नमृता संजय रोल नं. 1936

दिनांक: ०४/०१/२०२२

मो. नं. 9850169570

एकूण गुण- ४०

१. GNSS प्रणाली \_\_\_\_\_ आहेत.

अ. जीपीएस व. ग्लोनास क. गॅलिलिओ  ड. वरील सर्व

२. GPS वरील प्रकल्प कोणत्या वर्षी सुरू करण्यात आला?

अ. १९७० व. १९७१  क. १९७२ ड. १९७३

३. ग्लोबल पोजिशनिंग सिस्टम (GPS) \_\_\_\_\_ द्वारे ऑपरेट केली जाते?

अ. रशियन स्पेस फोर्स व. चीन स्पेस फोर्स  
क. युनायटेड स्टेट्स स्पेस फोर्स ड. फ्रेंच हवाई आणि अंतराळ दल

४. GPS वर प्राप्तकर्ता वेगवेगळ्या \_\_\_\_\_ कडून प्राप्त झालेल्या डेटाच्या आधारे स्वतःचा वेळ आणि स्थितीची गणना करतो.

अ. उपग्रह व. रेडिओ लहरी क. अणु घड्याळे ड. वरीलपैकी काहीही नाही

५. अचूक वेळेची माहिती देण्यासाठी \_\_\_\_\_ GPS च्या उपग्रहांवर उपस्थित आहे.

अ. अँटेना व. ट्रान्सपॉन्डर  क. अणु घड्याळ ड. वरील सर्व

६. GPS च्या नक्षत्रात किमान किती उपग्रह कार्यरत आहेत?

अ. २४ व. २५ क. २६ ड. २७

७. कोणत्या देशाने GPS सह समकालीन GLONASS विकसित केले?

अ. चीन व. भारत क. नेपाळ  ड. रशिया

८. नेव्हिगेशनसाठी गॅलिलिओ प्रणाली \_\_\_\_\_ द्वारे चालविली जाते.

अ. चीन व. भारत क. युरोप  ड. रशिया

९. भारतीयांद्वारे संचालित जीपीएस \_\_\_\_\_ आहे.

अ. होकायंत्र व. ग्लोनास क. गॅलिलिओ  ड. NavIC

10. जीपीएस \_\_\_\_\_ द्वारे देऊ केलेल्या सेवा?
- अ. पोझिशनिंग, नेव्हिगेशन आणि वेळ    ब. प्रदूषण, नेव्हिगेशन आणि तापमान  
 क. स्थिती, नेव्हिगेशन आणि तापमान    ड. स्थान, नेटवर्क आणि वेळ
11. पृथ्वीच्या पृष्ठभागावरील किती उपग्रह वापरले जातात जेणेकरून स्थान तयार करता येईल?
- अ. तीन    ब. चार    क. पाच    ड. सहा
12. \_\_\_\_\_ उपग्रह वापरून उपकरणाची उंची मोजली जाऊ शकते.
- अ. पहिला    ब. दुसरा    क. तिसऱ्या    ड. चौथा
13. GPS मध्ये विभाजन केलेले घटक \_\_\_\_\_ म्हणून ओळखले जातात.
- अ. विभाग    ब. फ्रेम्स    क. विभाजने    ड. पॅकेट्स
14. GPS मध्ये उपस्थित असलेले विभाग \_\_\_\_\_ आहेत.
- अ. जागा    ब. ग्राउंड कंट्रोल    क. वापरकर्ता उपकरणे    ड. वरील सर्व
15. भौगोलिक स्थान निश्चिती (जी.पी.एस.) तंत्राचा उपयोग खालीलपैकी कोणत्या क्षेत्रात होतो ?
- अ. पदभ्रमण    ब. पर्यावरण    क. प्रवासातील मार्गदर्शन    ड. वरीलपैकी सर्व.
16. सध्या भारताची खालीलपैकी कोणती जी.पी.एस. यंत्रणा आहे ?
- अ. IRNSS    ब. कंपास    क. Galileo    ड. GLANSS
17. अभीक्षेत्रिय आधारसामग्री प्रतिमान प्रामुख्याने किती मूलभूत प्रकारांमध्ये विभागले जाते.
- अ. 4    ब. 3    क. 5    ड. 2
18. GNSS चा लॉगफॉर्म .....आहे.
- A. Global Navigation Satellite System    B. Government Navigation Satellite System  
 C. Global Navigation Server System    D. None of the Above
19. रेखापुंज आधारसामग्रीला .....म्हणतात.
- A. Vector Data    B. Raster Data    C. Spatial Data    ड. None of the Above
20. भौगोलिक स्थान निश्चिती (जी.पी.एस.) तंत्राचा उपयोग खालीलपैकी ..... क्षेत्रात केला जातो
- अ. पदभ्रमण    ब. पर्यावरण    क. प्रवासातील मार्गदर्शन    ड. वरीलपैकी सर्व

श्री स्वामी विवेकानंद शिक्षण संस्था संचालित  
राजे रामराव महाविद्यालय, जत

भूगोल विभाग

जीपीएसची ओळख (Introduction to GPS)

विद्यार्थ्यांचे नाव: सार्कुंखे वणजित शिवाजी रोल नं. 1967

दिनांक: ०४/०१/२०२२

मो. नं. 9158505253

एकूण गुण- ४०

१. GNSS प्रणाली \_\_\_\_\_ आहेत.

अ. जीपीएस व. ग्लोनास क. गॅलिलिओ  ड. वरील सर्व

२. GPS वरील प्रकल्प कोणत्या वर्षी सुरू करण्यात आला?

अ. १९७० व. १९७१  क. १९७२ ड. १९७३

३. ग्लोबल पोजिशनिंग सिस्टम (GPS) \_\_\_\_\_ द्वारे ऑपरेट केली जाते?

अ. रशियन स्पेस फोर्स व. चीन स्पेस फोर्स  
क. युनायटेड स्टेट्स स्पेस फोर्स ड. फ्रेंच हवाई आणि अंतराळ दल

४. GPS वर प्राप्तकर्ता वेगवेगळ्या \_\_\_\_\_ कडून प्राप्त झालेल्या डेटाच्या आधारे स्वतःचा वेळ आणि स्थितीची गणना करतो.

अ. उपग्रह व. रेडिओ लहरी क. अणु घड्याळे  ड. वरीलपैकी काहीही नाही

५. अचूक वेळेची माहिती देण्यासाठी \_\_\_\_\_ GPS च्या उपग्रहांवर उपस्थित आहे.

अ. अँटना व. ट्रान्सपॉन्डर क. अणु घड्याळ  ड. वरील सर्व

६. GPS च्या नक्षत्रात किमान किती उपग्रह कार्यरत आहेत?

अ. २४ व. २५ क. २६ ड. २७

७. कोणत्या देशाने GPS सह समकालीन GLONASS विकसित केले?

अ. चीन व. भारत क. नेपाळ  ड. रशिया

८. नेव्हिगेशनसाठी गॅलिलिओ प्रणाली \_\_\_\_\_ द्वारे चालविली जाते.

अ. चीन व. भारत क. युरोप  ड. रशिया

९. भारतीयांद्वारे संचालित जीपीएस \_\_\_\_\_ आहे.

अ. होकायंत्र व. ग्लोनास क. गॅलिलिओ  ड. NavIC



1 ✓ १०. जीपीएस \_\_\_\_\_ द्वारे देऊ केलेल्या सेवा?

- ✓ अ. पोजिशनिंग, नेव्हिगेशन आणि वेळ      ब. प्रदूषण, नेव्हिगेशन आणि तापमान  
क. स्थिती, नेव्हिगेशन आणि तापमान      ड. स्थान, नेटवर्क आणि वेळ

1 ✓ ११. पृथ्वीच्या पृष्ठभागावरील किती उपग्रह वापरले जातात जेणेकरून स्थान तयार करता येईल?

- ✓ अ. तीन      ब. चार      क. पाच      ड. सहा

1 ✓ १२. \_\_\_\_\_ उपग्रह वापरून उपकरणाची उंची मोजली जाऊ शकते.

- अ. पहिला      ब. दुसरा      क. तिसऱ्या      ✓ क. चौथा

0 ✓ १३. GPS मध्ये विभाजन केलेले घटक \_\_\_\_\_ म्हणून ओळखले जातात.

- ✓ अ. विभाग      ब. फ्रेम्स      क. विभाजने      ड. पॅकेट्स

1 ✓ १४. GPS मध्ये उपस्थित असलेले विभाग \_\_\_\_\_ आहेत.

- अ. जागा      ब. ग्राउंड कंट्रोल      क. वापरकर्ता उपकरणे ✓ ड. वरील सर्व

1 ✓ १५. भौगोलिक स्थान निश्चिती (जी.पी.एस.) तंत्राचा उपयोग खालीलपैकी कोणत्या क्षेत्रात होतो ?

- अ. पदभ्रमण      ब. पर्यावरण      क. प्रवासातील मार्गदर्शन ✓ ड. वरीलपैकी सर्व.

1 ✓ १६. सध्या भारताची खालीलपैकी कोणती जी.पी.एस. यंत्रणा आहे ?

- ✓ अ. IRNSS      ब. कपास      क. Galileo      ड. GLANSS

1 ✓ १७. अभीक्षेत्रिय आधारसामग्री प्रतिमान प्रामुख्याने किती मूलभूत प्रकारांमध्ये विभागले जाते.

- ✓ अ. ४      ब. ३      क. ५      ड. २

1 ✓ १८. GNSS चा लॉगफॉर्म ..... आहे.

- ✓ A. Global Navigation Satellite System      B. Government Navigation Satellite System  
C. Global Navigation Server System      D. None of the Above

0 ✓ १९. रेखापुंज आधारसामग्रीला ..... म्हणतात.

- A. Vector Data      B. Raster Data      C. Spatial Data      ✓ D. None of the Above

1 ✓ २०. भौगोलिक स्थान निश्चिती (जी.पी.एस.) तंत्राचा उपयोग खालीलपैकी ..... क्षेत्रात केला जातो

- अ. पदभ्रमण      ब. पर्यावरण      क. प्रवासातील मार्गदर्शन ✓ ड. वरीलपैकी सर्व

# Department of Geography

## Certificate Course

### Introduction to GPS

2021-2022

#### MARKLIST

Sr. No.	Roll No.	Name	Internal Marks	External Marks	Total Marks
1.	1931	*Ballari Bharti Sunkana	9	34	33
2.	1932	*Bandage Priyanka Maruti	8	32	40
3.	1933	*Chaugule Priyanka Tukaram	0	00	00
4.	1934	*Chavan Priyanka Suresh	8	34	42
5.	1935	*Jadhav Soniya Ram	9	38	47
6.	1936	*Kalal Namrata Sanjay	8	36	44
7.	1937	*Kamble Shilpa Gangappa	8	38	46
8.	1938	*Karenawar Sneha Subhash	8	36	46
9.	1939	*Kokare Ujwala Abasaheb	9	38	47
10.	1940	*Mali Ashwini Ramchandra	8	34	42
11.	1941	*Mali Ashwini Vijay	8	36	44
12.	1942	*Mali Rupali Rajaram	9	36	45
13.	1943	*Mane Sakshi Sanjay	8	38	46
14.	1944	*Nilajagi Tejaswini Kumar	9	38	47
15.	1945	*Patole Bhagyashri Nagappa	8	36	44
16.	1946	*Pawar Shivani Vijay	9	38	47
17.	1947	*Sabale Sushama Arun	8	26	34
18.	1948	*Sargar Deepali Lakshman	9	26	35
19.	1949	*Sawant Priyanka Ramchandra	0	00	0
20.	1950	*Torane Dipali Balu	0	0	0
21.	1951	*Waghamare Ankita Rajaram	8	36	44
22.	1952	Aiwale Prathmesh Ramesh	9	36	45
23.	1953	Bhosale Anil Baban	8	34	42
24.	1954	Chougule Abhijit Satish	9	32	41
25.	1955	Dudhal Vinod Dadaso	8	34	42



26.	1956	Jadhav Digambar Shrikant	9	34	43
27.	1957	Kale Sagar Devappa	0	0	0
28.	1958	Khandekar Nagappa Shivaji	8	34	42
29.	1959	Khandekar Rupali Suresh	9	28	37
30.	1960	Kharat Abhijit Rajesh	9	34	43
31.	1961	Mane Amit Sanjay	9	22	31
32.	1962	Mane Prashant Tanaji	0	0	0
33.	1963	Mane Sachin Annappa	8	34	42
34.	1964	Pathrut Abhishek Sudhakar	8	36	44
35.	1965	Pawar Avinash Ramesh	9	38	47
36.	1966	Sale Avinash Sanjay	8	38	46
37.	1967	Salunkhe Ranjit Shivaji	9	36	47
38.	1968	Tamboli Ayaj Kabir	0	0	0
39.	1969	Torane Tukaram Balu	9	34	43
40.	1970	Vagare Suryaba Ankush	8	28	46
41.	1971	Bankar Vishal Balu	9	34	43
42.	1972	Yamgar Prashant Dnyanu	0	0	0

  
Coordinator

  
Head

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## CERTIFICATE



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Date: 10<sup>th</sup> January 2022

Place: Jath

Mr. V. P. Koli  
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Date: 10<sup>th</sup> January 2022

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**Mr. V. P. Koli**  
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Date: 10<sup>th</sup> January 2022

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Date: 10<sup>th</sup> January 2022

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Date: 10<sup>th</sup> January 2022

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Date: 10<sup>th</sup> January 2022

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Date: 10<sup>th</sup> January 2022

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Date: 10<sup>th</sup> January 2022

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Date: 10<sup>th</sup> January 2022

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Date: 10<sup>th</sup> January 2022

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Date: 10<sup>th</sup> January 2022

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Date: 10<sup>th</sup> January 2022

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Date: 10<sup>th</sup> January 2022

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Date: 10<sup>th</sup> January 2022

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Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

# Raje Ramrao Mahavidyalaya, Jath

(Affiliated to Shivaji University, Kolhapur)



## CERTIFICATE



This is to certify that Mr. / Miss. Sale Avinash Sanjay Class B.A. III has successfully completed the ‘Certificate Course in Introduction to GPS’ conducted by Department of Geography, Raje Ramrao Mahavidyalaya, Jath during the Academic Year- 2021-2022.

Date: 10<sup>th</sup> January 2022

Place: Jath

A handwritten signature in blue ink, appearing to be 'V.P. Koli'.

**Mr. V. P. Koli**  
Co-ordinator

A handwritten signature in purple ink, appearing to be 'Y.S. Shinde'.

**Mr. Y. S. Shinde**  
Head

A handwritten signature in black ink, appearing to be 'S.S. Patil'.

**Prof. (Dr.) S. S. Patil**  
I/C Principal



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## CERTIFICATE



This is to certify that Mr. / Miss. Salunkhe Ranjit Shivaji Class B.A. III has successfully completed the ‘Certificate Course in Introduction to GPS’ conducted by Department of Geography, Raje Ramrao Mahavidyalaya, Jath during the Academic Year- 2021-2022.

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Co-ordinator

Mr. Y. S. Shinde  
Head

Prof. (Dr.) S. S. Patil  
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This is to certify that Mr. / Miss. Torane Tukaram Balu Class B.A. III has successfully completed the ‘Certificate Course in Introduction to GPS’ conducted by Department of Geography, Raje Ramrao Mahavidyalaya, Jath during the Academic Year- 2021-2022.

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## CERTIFICATE



This is to certify that Mr. / Miss. Vagare Suryaba Ankush Class B.A. III has successfully completed the ‘Certificate Course in Introduction to GPS’ conducted by Department of Geography, Raje Ramrao Mahavidyalaya, Jath during the Academic Year- 2021-2022.

Date: 10<sup>th</sup> January 2022

Place: Jath

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Co-ordinator

Mr. Y. S. Shinde  
Head

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This is to certify that Mr. / Miss. Bankar Vishal Balu Class B.A. III has successfully completed the ‘Certificate Course in Introduction to GPS’ conducted by Department of Geography, Raje Ramrao Mahavidyalaya, Jath during the Academic Year- 2021-2022.

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Place: Jath

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Co-ordinator

Mr. Y. S. Shinde  
Head

Prof. (Dr.) S. S. Patil  
I/C Principal