

**Department of Geography  
organize**

**Certificate Course in DIGITAL  
CARTOGRAPHY GIS & RS**

**Academic Year: 2022-23**



Sonopant Dandekar Shikshan Mandal's  
Sonopant Dandekar Arts,  
V. S. Apte Commerce &  
M. H. Mehta Science College, Palghar  
Estb.: 14 August 1968  
Dr. Kiran Save, Principal

Kharekuran Road, Palghar (W), Tal. & Dist. Palghar,  
Maharashtra - 401 404, INDIA  
Tel. : +91 - 2525 - 252163  
Principal : +91 - 2525 - 252317  
Email : sdscollege@yahoo.com  
Web. : www.sdscollege.com

## Department of Geography

### Certificate Course

#### DIGITAL CARTOGRAPHY GIS & RS [ Geographical Information System & Remote Sensing ]

##### Objectives and Learning Outcomes:

1. To understand basic principles of digital cartography and modern surveying.
2. To train in various cartographic techniques for preparation of maps and diagrams.
3. To acquaint with the skills of modern surveying tools.
4. To know the technical knowhow and develops skills of digital data analysis.
5. To apply the knowledge and skills of digital cartography in preparing maps.
6. To apply digital cartographic skills in understanding of landuse, environment and conservation.

**Duration: - 40 Hrs.**

**Eligibility: - FY / SY/ TYBA Geography or any students interested in GIS**

**(Geographical Information System) who is 12<sup>th</sup> pass and can be of any stream.**

**Fees: -Rs 200 only.**

**Intake Capacity: 30 students**

**Credit: 01**

**Total Marks: 100 [ 50 Marks Theory Exam and 50 Marks Practical work]**

**Department of Geography has started this certificate course from the month of November 2022.**

**Course Coordinator**

**Dr. Rahane Balasaheb Bhaurao  
Dept.of Geography,**

## Course Contents:-

Cartography: concept, history and applications, Maps: Concept, components and types, Preparation and reading of thematic and topographical maps, Digital cartography – concept, components and applications, **Modern Surveying and Mapping- I** Remote Sensing Technology and use of Mobile Applications, Introduction to different android apps to learn world map , Geo tagging and mapping , Measuring of distance and height with the help of mobile apps, **Modern Surveying and Mapping- II** GPS Survey, DGPS (Differential Global positioning System) and GNSS (Global Navigation Satellite System), GPS Area calculation, Drone surveying, Internet in geographical studies, mobile apps for weather data collection.

**Practical Component:** Data analysis and representation – SPSS and Excel, Area Calculation Survey and Map preparation, Field visit and Landuse Survey Application of different Android Apps , Google Earth and Open Street Map – Measuring of elevation with the help of Altimeter

After completion of this course exam will be taken and course completion certificate will be given to students.

## Certificate Course Syllabus and Expert Committee

Sr. No.	Name	
1.	<b>Dr. Kiran J. Save</b>	<b>Principal, Sonopant Dandekar College, Palghar</b>
2.	<b>Prof. Mahesh Deshmukh</b>	<b>IQAC Cordinator, Sonopant Dandekar College, Palghar</b>
3.	<b>Dr. B. B. Rahane</b>	<b>Course Coordinator, Head, Dept. of Geography</b>
4.	<b>Dr. Hemant M Pednekar</b>	<b>Expert in Cartography Ex. Principal Sonopant Dandekar College, Palghar</b>
5.	<b>Prof. Dnyaneshwar D. Bombe</b>	<b>Expert in GIS and Surveying, Head, Dept. of Geography, Sathye College Vile Parle , Mumbai</b>
6.	<b>Dr. Sanjay D Aghav</b>	<b>Dept. of Geography, Chetna College, Bandra Esst, Mumbai</b>

## List of subject teachers / Expertise faculty

Sr. No.	Name of the Subject teacher / Expertise	Topics / subtopics to be teach
1.	<b>Dr. Hemant Pednekar</b> Ex. Principal and Head Dept. Geography, Sonopant Dandekar College, Palghar	Cartography: concept, history and applications , Preparation and reading of thematic and topographical maps,
2.	<b>Dr. B. B. Rahane</b> Course Coordinator, Head, Dept. of Geography	Introduction to different android apps to learn world map, Area Calculation Survey and Map preparation
3.	<b>Prof. Dnyaneshwar D. Bombe</b> Head, Dept. of Geography, Sathye College Vile Parle, Mumbai	Maps: Concept, components and types, Remote Sensing Technology and use of Mobile Applications, Digital cartography – concept, components and applications, Geo tagging and mapping
4.	<b>Prof Dinesh J Nahire</b> ASC College Onde, Vikramgad	Internet in geographical studies, mobile apps for weather data collection
5.	<b>Dr. Sanjay D Aghav</b> Chetana College , Bandra East Mumbai.	Data analysis and representation – SPSS and Excel



**Course Coordinator**

**Dr. Rahane Balasaheb Bhaurao**  
**Dept.of Geography,**

## Index

<b>Sr. No.</b>	<b>Particulars</b>	<b>Page No.</b>
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# Proposal

Sonopant Dandekar Shikshan Mandali's  
**SONOPANT DANDEKAR ARTS, V.S. APTE COMMERCE AND  
M.H. MEHTA SCIENCE COLLEGE, Palghar.**

Date: 3<sup>rd</sup> October, 2022

To,  
Dr. Kiran Save  
Principal  
Sonopant Dandekar Arts, V.S. Apte Commerce and  
M.H. Mehta Science College,  
Palghar.

**Subject:** Proposal for Organizing Course in “**MODERN SURVEYING AND  
ADVANCED DIGITAL CARTOGRAPHY [GIS & GPS]”**

## **Objectives and Learning Outcomes:**

1. To understand basic principles of digital cartography and modern surveying.
2. To train in various cartographic techniques for preparation of maps and diagrams.
3. To acquaint with the skills of modern surveying tools.
4. To know the technical knowhow and develops skills of digital data analysis.
5. To apply the knowledge and skills of digital cartography in preparing maps.
6. To apply digital cartographic skills in understanding of land use, environment and conservation.

**Duration:** - 40 Hrs.

**Eligibility:** - FY / SY/ TYBA Geography or any students interested in GIS

(Geographical Information System) who is 12<sup>th</sup> pass and can be of any stream.

**Fees: Rs 200 only.**

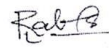
**Intake Capacity: 30 students**

**Total Marks: 100 [50 Marks Theory Exam and 50 Marks Practical work ]**

Kindly give the permission for said course and we look forward for your kind cooperation.

Thanking You,

Yours sincerely.



**Course Coordinator**

**Dr. Rahane Balasaheb Bhaurao**  
**Dept. of Geography**



# Notice



Sonopant Dandekar Arts,  
V. S. Apte Commerce &  
M. H. Mehta Science College, Palghar

Estb.: 14 August 1968

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Maharashtra - 401 404, INDIA  
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## Certificate Course in MODERN SURVEYING AND ADVANCED DIGITAL CARTOGRAPHY [GIS & GPS]

Date: 10<sup>th</sup> October, 2022

### Notice

All the students of Senior College are hereby informed that Department of Geography is organizing a Certificate Course in Modern Surveying and Advanced Digital Cartography [GIS & GPS] from 18<sup>th</sup> November 2022 for the students Interested In digital mapping, computerized cartography and modern methods of surveying.

Enrolment for the above course should be done on or before 15<sup>th</sup> November 2022 at the Dept. of Geography.

After successful completion of the course, participants will get certificate from the college.

**Dr. B B Rahane**  
Assistant Professor,  
Dept. of Geography/ EVS  
Sonopant Dandekar  
College, Palghar

**PRINCIPAL**

Sonopant Dandekar Arts College  
V. S. Apte Commerce College &  
M. H. Mehta Science College  
Palghar (W.R.)  
Dist. Palghar: Pin 401 404



# Brochure

SONOPANT DANDEKAR SHIKSHAN MANDALI'S  
SONOPANT DANDEKAR ARTS, V. S. APTE  
COMMERCE AND M. H. MEHTA SCIENCE  
COLLEGE, PALGHAR



## Certificate Course on MODERN SURVEYING AND DIGITAL CARTOGRAPHY [GIS & GPS]

Organized by  
Department of Geography

Course Duration-3 Months  
Fees: -Rs. 200/-

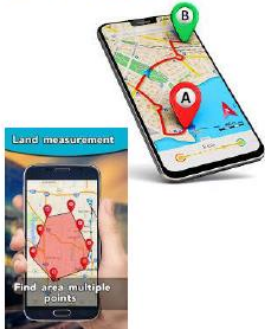
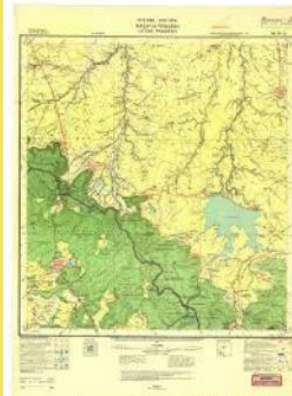
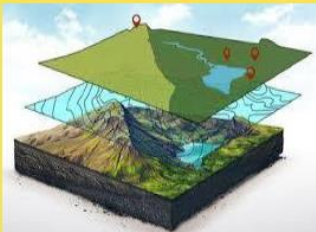
Intake Capacity: 30 students  
Eligibility: - FY / SY/ TY/ PG  
Students from all streams

Google form  
registration:

<https://forms.gle/dA4246Sgxj3R5BXo9>

### Objectives and Learning Outcomes:

- To understand basic principles of digital cartography and modern surveying.
- To train in various cartographic techniques for preparation of maps and diagrams.
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Dr. B. B. Rahane  
Course Coordinator,  
Dept. of Geography  
Contact: 9403077290 /  
9890817219

**DIGITAL CARTOGRAPHY GIS & RS (Syllabus)**  
**[Geographical Information System & Remote Sensing]**

<b>Syllabus</b>			
<b>Units</b>	<b>Particulars</b>		<b>Total Lectures</b>
<b>Unit I</b>	<b>Introduction to Cartography</b>		
<b>1.1</b>	Cartography: concept, history and applications	<b>02</b>	<b>08</b>
<b>1.2</b>	Maps: Concept, components and types	<b>02</b>	
<b>1.3</b>	Preparation and reading of thematic and topographical maps	<b>02</b>	
<b>1.4</b>	Digital cartography – concept, components and applications	<b>02</b>	
<b>Unit II</b>	<b>Modern Surveying and Mapping- I</b>		
<b>2.1</b>	Remote Sensing Technology and use of Mobile Applications	<b>02</b>	<b>09</b>
<b>2.2</b>	Introduction to different android apps to learn geography	<b>02</b>	
<b>2.3</b>	Geo tagging and mapping	<b>02</b>	
<b>2.4</b>	Measuring of distance and height with the help of mobile apps [Case study on Geo Tagging and use of android apps for geographical study]	<b>03</b>	
<b>Unit III</b>	<b>Modern Surveying and Mapping- II</b>		
<b>3.1</b>	GPS Survey, DGPS and GNSS	<b>03</b>	<b>09</b>
<b>3.2</b>	GPS Area calculation, Drone surveying	<b>02</b>	
<b>3.3</b>	Internet in geographical studies, mobile apps for weather data collection	<b>02</b>	
<b>3.4</b>	Case study on GPS and internet for geographical study	<b>02</b>	
<b>Unit IV</b>	<b>Practical Component</b>		
<b>4.1</b>	Data analysis and representation – SPSS and Excel	<b>04</b>	<b>14</b>
<b>4.2</b>	Area Calculation Survey and Map preparation	<b>03</b>	
<b>4.3</b>	Field visit and Landuse Survey : Application of different Android Apps	<b>03</b>	
<b>4.4</b>	Google Earth and Open Street Map – Measuring of elevation with the help of Altimeter <ul style="list-style-type: none"> <li>• Field visit and Report Writing</li> </ul>	<b>04</b>	

## Details of the Plan:

Units	Details	Date	Time	Name of the Teacher
<b>Unit I</b>	<b>Introduction to Cartography</b>			
<b>1.1</b>	Cartography: concept, history and applications	18/11/2022	3 pm to 5 pm	Dr. HMP
<b>1.2</b>	Maps: Concept, components and types	19/11/2022	3 pm to 5 pm	Prof. D.D. Bombe
<b>1.3</b>	Preparation and reading of thematic and topographical maps	25/11/2022	3 pm to 5 pm	Dr. HMP
<b>1.4</b>	Digital cartography – concept, components and applications	26/11/2022	3 pm to 5 pm	Prof. D.D. Bombe
<b>Unit II</b>	<b>Modern Surveying and Mapping- I</b>			
<b>2.1</b>	Remote Sensing Technology and use of Mobile Applications	02/12/2022	3 pm to 5 pm	Prof. D.D. Bombe
<b>2.2</b>	Introduction to different android apps to learn world map	03/12/2022	3 pm to 5 pm	Dr. BBR
<b>2.3</b>	Geo tagging and mapping	02/12/2022	3 pm to 5 pm	Prof. DDB
<b>2.4</b>	Measuring of distance and height with the help of mobile apps	03/12/2022	3 pm to 5 pm	Dr. BBR
	<b>[Case study on Geo Tagging and use of android apps for geographical study]</b>	04/12/2022	9:30am to 3:30am	Dr. BBR
<b>Unit III</b>	<b>Modern Surveying and Mapping- II</b>			
<b>3.1</b>	GPS Survey, DGPS and GNSS	13/12/2022	3 pm to 5 pm	Prof. DDB
<b>3.2</b>	GPS Area calculation, Drone surveying	14/12/2022	3 pm to 5 pm	Prof. DDB
<b>3.3</b>	Internet in geographical studies, mobile apps for weather data collection	7/01/2023	3 pm to 5 pm	Dr. BBR
<b>3.4</b>	<b>Case study on GPS and internet for geographical study</b>	8/01/2023	9:30am to 3:30am	Prof. DDB
<b>Unit IV</b>	<b>Practical Component</b>			
<b>4.1</b>	Data analysis and representation – SPSS and Excel	13/01/2023	3 pm to 5 pm	Prof. DDB
<b>4.2</b>	Area Calculation Survey and Map preparation	20/01/2023	3 pm to 5 pm	Dr. BBR
<b>4.3</b>	Field visit and Landuse Survey : Application of different Android Apps	21/01/2023	3 pm to 5 pm	Prof. DDB
<b>4.4</b>	Google Earth and Open Street Map – Measuring of elevation with the help of Altimeter	04/02/2023	3 pm to 5 pm	Prof. DDB
	<b>Field visit and Report Writing</b>	11 & 12 Feb. 2023		Dr. BBR & Prof. DDB

## STUDENTS ENROLLMENT LIST

### Students Enrollment List

Sr. No	Name of the Student
1.	BIRARI YATISH JAYARAM
2.	BONGE VEDIKA SADANAND
3.	DHAPSHI RIYA NITESH
4.	DHAPSHI AARTI GANESH
5.	DHIKAR DHEERAJ RATAN
6.	GADAG AMIT CHANDRAKANT
7.	GOLIM SUGANDHA PANDU
8.	HEMADA DARSHANA MADHUKAR
9.	JADHAV BHAVINI MADHU
10.	KATKAR PRITI VINOD
11.	KORDA PRAMILA DATTATRAY
12.	MANDHARE RAJAS DNYANDEO
13.	PATIL PIYUSH RAMKRISHNA
14.	RINJAD CHIRAG PRADIP
15.	SOMVANSHI NAVJYOT RAMCHANDRA
16.	SURALKAR AJAY PRAKASH
17.	VAVARE MAYURI CHANDRAKANR
18.	BHOYE SUDAM JEEVU
19.	PARHAD SUDHIR JAYARAM
20.	TUMBADA MAHESH BALU
21.	TUMADA MAHESH BABALYA GULAB
22.	VAIDYA TAPASWINI DEEPAK
23.	SAWANT ASHWINI ASHOK



# Student Attendance Lists



Sonopant Dandekar Shikshan Mandali's  
 Sonopant Dandekar Arts, V. S. Apte Commerce  
 & M. H. Mehta Science College, Palghar  
 (Best College - University of Mumbai)  
 (Amongst Top 100 Colleges in India by 'India Today - MDRA Survey 2019')

Department of Geography Certificate Course - 2022-23

## DIGITAL CARTOGRAPHY GIS & RS [ Geographical Information System & Remote Sensing ]

Attendance Record: - Jan./Feb. 2023 Time:- 3:10 pm to 5:00 pm

Sr. No.	Roll No.	Student Name	Date:	Date:	Date:	Date:
			21/01/23	4/02/23	11/02/23	25/02/23
1	622	BIRARI YATISH JAYARAM	Yatish	Yatish	Yatish	Yatish
2		BONGE VEDIKA SADANAND				
3	620	DHAPSHI RIYA NITESH	Dhapshi	Dhapshi	Dhapshi	Dhapshi
4	618	DHAPSHI ARTI GANESH	Arti	Arti	Arti	Arti
5	715	DHIKAR DHEERAJ RATAN	Dhikar	Dhikar	Dhikar	Dhikar
6	679	GADAG AMIT CHANDRAKANT	Amit	Amit	Amit	Amit
7		GOLIM SUGANDHA PANDU				
8	746	HEMADA DARSHANA MADHUKAR	Hemada	Hemada	Hemada	Hemada
9	615	JADHAV BHAVINI MADHU	Bhavini	Bhavini	Bhavini	Bhavini
10		KATKAR PRITI VINOD				
11	50001	KORDA PRAMILA DATTATRAY	PrAMILA	PrAMILA	PrAMILA	PrAMILA
12	703	MANDHARE RAJAS DNYANDEO	Rajas	Rajas	Rajas	Rajas
13	714	PATIL PIYUSH RAMKRISHNA	Piyush	Piyush	Piyush	Piyush
14	50010	RINJAD CHIRAG PRADIP	Chirag	Chirag	Chirag	Chirag
15	665	SOMVANSHI NAVJYOT RAMCHANDRA	Navjyot	Navjyot	Navjyot	Navjyot
16	767	SURALKAR AJAY PRAKASH	Ajay	Ajay	Ajay	Ajay
17	637	VAVARE MAYURI CHANDRAKANR	Mayuri	Mayuri	Mayuri	Mayuri
18	87002	BHOYE SUDAM JEEVU	Sudam	Sudam	Sudam	Sudam
19	87001	PARHAD SUDHIR JAYARAM	Sudhir	Sudhir	Sudhir	Sudhir
20	87003	TUMBADA MAHESH BALU	Mahesh	Mahesh	Mahesh	Mahesh
21	87004	TUMBADA MAHESH BABALYA GULAB	Mahesh	Mahesh	Mahesh	Mahesh
22	87006	VAIDYA TAPASWINI DEEPAK	Tapaswini	Tapaswini	Tapaswini	Tapaswini
23	87005	SAWANT ASHWINI ASHOK	Ashwini	Ashwini	Ashwini	Ashwini
24						
25						

Course Coordinator

Dr. B. B. Rahane





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Department of Geography Certificate Course – 2022-23

DIGITAL CARTOGRAPHY GIS & RS

[ Geographical Information System & Remote Sensing ]

Attendance Record: - December 2022 Time:- 5:00 pm to 5:30 pm

Sr. No.	Roll No.	Student Name	Date:	Date:	Date:	Date:
			2/12/22	3/12/22	4/12/2022	13/12/2022
1	622	BIRARI YATISH JAYARAM	Yatish	Yatish	Yatish	Yatish
2		BONGE VEDIKA SADANAND				
3	620	DHAPSHI RIYA NITESH	Dhapshi	Dhapshi	Dhapshi	Dhapshi
4	618	DHAPSHI ARTI GANESH	Arti	Arti	Arti	Arti
5	715	DHIKAR DHEERAJ RATAN	Dhikar	Dhikar	Dhikar	Dhikar
6	689, 679	GADAG AMIT CHANDRAKANT	Adag	Adag	Adag	Adag
7	662	GOLIM SUGANDHA PANDU	Goim		Goim	Goim
8	746	HEMADA DARSHANA MADHUKAR	Hemada	Hemada	Hemada	Hemada
9	615	JADHAV BHAVINI MADHU	Bhavini	Bhavini	Bhavini	Bhavini
10		KATKAR PRITI VINOD				
11	5001	KORDA PRAMILA DATTATRAY	Pramila	Pramila	Pramila	Pramila
12	703	MANDHARE RAJAS DNYANDEO	Rajamandhare	Rajamandhare	Rajamandhare	Rajamandhare
13	714	PATIL PIYUSH RAMKRISHNA	P.Patil	P.Patil	P.Patil	P.Patil
14	50010	RINJAD CHIRAG PRADIP	Chirag	Chirag	Chirag	Chirag
15	665	SOMVANSHI NAVJYOT RAMCHANDRA	Navjyot	Navjyot	Navjyot	Navjyot
16	767	SURALKAR AJAY PRAKASH	Ajay	Ajay	Ajay	Ajay
17	637	VAVARE MAYURI CHANDRAKANR	Mayuri	Mayuri	Mayuri	Mayuri
18	87002	BHOYE SUDAM JEEVU	Sudam	Sudam	Sudam	
19	87001	PARHAD SUDHIR JAYARAM	Sudhir	Sudhir	Sudhir	
20	87002	TUMBADA MAHESH BALU	Mahesh		Mahesh	Mahesh
21	87004	TUMBADA MAHESH BABALYA GULAB	Mahesh	Mahesh		Mahesh
22	87006	VAIDYA TAPASWINI DEEPAK	Tapaswini	Tapaswini	Tapaswini	Tapaswini
23	87005	SAWANT ASHWINI ASHOK	Ashwini	Ashwini	Ashwini	
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25						

Course Coordinator

Dr. B. B. Rahane



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Department of Geography Certificate Course – 2022-23

DIGITAL CARTOGRAPHY GIS & RS

[ Geographical Information System & Remote Sensing]

Attendance Record: - January 2023 Time:- 3:00 pm to 5:00 pm

Sr. No.	Roll No.	Student Name	Date:	Date:	Date:	Date:
			7/10/2023	8/10/23	13/10/23	20/10/2023
1	622	BIRARI YATISH JAYARAM	Yatish	Yatish	Yatish	Yatish
2		BONGE VEDIKA SADANAND				
3	620	DHAPSHI RIYA NITESH	Dhapshi	Dhapshi	Dhapshi	Dhapshi
4	618	DHAPSHI ARTI GANESH	Arti	Arti	Arti	Arti
5	715	DHIKAR DHEERAJ RATAN	Dhika	Dhika	Dhika	Dhika
6	679	GADAG AMIT CHANDRAKANT	Gadag	Gadag	Gadag	Gadag
7	662	GOLIM SUGANDHA PANDU	Golim	Golim	Golim	Golim
8	746	HEMADA DARSHANA MADHUKAR	Hemada	Hemada	Hemada	Hemada
9	615	JADHAV BHAVINI MADHU	Bhavini	Bhavini	Bhavini	Bhavini
10		KATKAR PRITI VINOD	Priti	Priti	Priti	Priti
11	50001	KORDA PRAMILA DATTATRAY	Prameda	Prameda	Prameda	Prameda
12	703	MANDHARE RAJAS DNYANDEO	R.D. Mandhare	R.D. Mandhare	R.D. Mandhare	R.D. Mandhare
13	714	PATIL PIYUSH RAMKRISHNA	P.Patil	P.Patil	P.Patil	P.Patil
14	50010	RINJAD CHIRAG PRADIP	Chirag	Chirag	Chirag	Chirag
15	665	SOMVANSHI NAVJYOT RAMCHANDRA	Navjyot	Navjyot	Navjyot	Navjyot
16	767	SURALKAR AJAY PRAKASH	Ajay	Ajay	Ajay	Ajay
17	637	VAVARE MAYURI CHANDRAKANR	Mayuri	Mayuri	Mayuri	Mayuri
18	87002	BHOYE SUDAM JEEVU	Sudam	Sudam	Sudam	Sudam
19	87001	PARHAD SUDHIR JAYARAM	Sudhir	Sudhir	Sudhir	Sudhir
20	87003	TUMBADA MAHESH BALU	Mahesh	Mahesh	Mahesh	Mahesh
21	87004	TUMBADA MAHESH BABALYA GULAB	Mahesh	Mahesh	Mahesh	Mahesh
22	87006	VAIDYA TAPASWINI DEEPAK	Tapaswini	Tapaswini	Tapaswini	Tapaswini
23	87005	SAWANT ASHWINI ASHOK	Ashwini	Ashwini	Ashwini	Ashwini
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25						

Course Coordinator

Dr. B. B. Rahane





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Department of Geography Certificate Course – 2022-23

DIGITAL CARTOGRAPHY GIS & RS

[ Geographical Information System & Remote Sensing]

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1	622	BIRARI YATISH JAYARAM	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2		BONGE VEDIKA SADANAND				
3	620	DHAPSHI RIYA NITESH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4	618	DHAPSHI ARTI GANESH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
5	715	DHIKAR DHEERAJ RATAN	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
6	679	GADAG AMIT CHANDRAKANT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
7		GOLIM SUGANDHA PANDU				
8	746	HEMADA DARSHANA MADHUKAR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
9	615	JADHAV BHAVINI MADHU	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10		KATKAR PRITI VINOD				
11	50001	KORDA PRAMILA DATTATRAY	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
12	703	MANDHARE RAJAS DNYANDEO	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
13	714	PATIL PIYUSH RAMKRISHNA	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
14	50010	RINJAD CHIRAG PRADIP	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
15	665	SOMVANSHI NAVJYOT RAMCHANDRA	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
16	767	SURALKAR AJAY PRAKASH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
17	637	VAVARE MAYURI CHANDRAKANR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
18	87002	BHOYE SUDAM JEEVU	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>
19	87001	PARHAD SUDHIR JAYARAM	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>
20	87003	TUMBADA MAHESH BALU	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
21	87004	TUMBADA MAHESH BABALYA GULAB	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>
22	87006	VAIDYA TAPASWINI DEEPAK	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23	87005	SAWANT ASHWINI ASHOK	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>
24						
25						

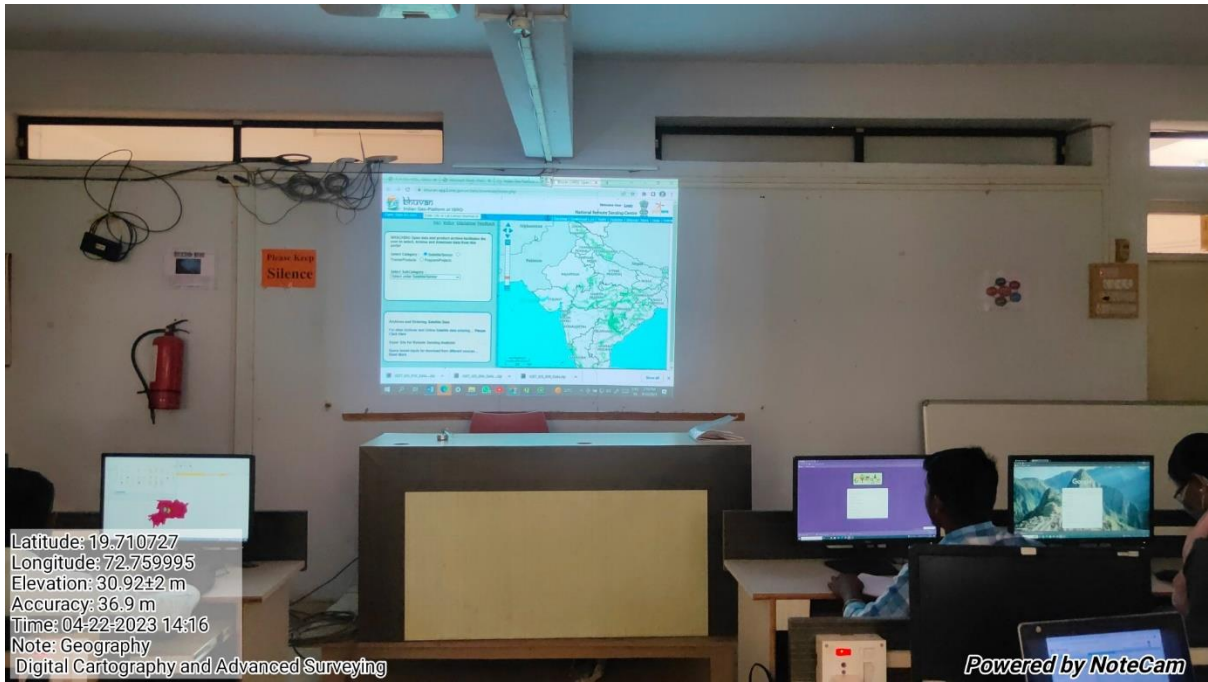
Course Coordinator

Dr. B. B. Rahane

*[Signature]*



## Photo of session



# Certificate







Sonopant Dandekar Shikshan Mandal's  
Sonopant Dandekar Arts, V.S. Apte Commerce  
and M.H. Mehta Science College, Palghar  
(Affiliated to University of Mumbai)  
• Amongst top 150 colleges as per India Today Nation wise survey  
• Awarded Best College by University of Mumbai


# CERTIFICATE OF COMPLETION

## CENTER FOR EXCELLENCE & INNOVATION DEPARTMENT OF GEOGRAPHY


Certificate Course In Digital Cartography : GIS & RS



This is to acknowledge that  
Mr./Ms. PATIL PIYUSH RAMKRISHNA  
of TYBA class of Sonopant Dandekar College, Palghar has  
successfully completed "Certificate Course In Digital Cartography : GIS & RS"  
conducted by Department of Geography during the academic year 2022-23  
and secured B grade.

  
**Dr. Balasahab Rahane**  
Head  
Department of Geography

  
**Prof. Mahesh Deshmukh**  
Chairman CFEI

  
**Dr. Kiran Save**  
Principal

# Report

This certificate course has equipped participants with a solid foundation in both traditional and modern cartographic techniques. The hands-on experience with digital tools, mobile apps, and advanced surveying technologies such as GPS and drones has prepared participants to effectively apply these skills in various professional and academic contexts. The integration of theoretical knowledge with practical applications ensures that participants are well-prepared to meet the demands of the modern geospatial industry.

Course Commencement: 18/11/2022

Course Completion: 12/02/2023

Number of students enrolled for the course: 23

Number of students completed the course: 23

Duration of the course: 40 hours



**Course Coordinator**

**Dr. Rahane Balasaheb Bhaurao**

**Dept.of Geography**