



## Supporting Document for the metrics 3.3.3

**Number of books and chapters in edited volumes/books published and paper published in national/ international conference proceedings per teacher during last year.**



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Sr.No	Particulars	Page no.
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**Document -1 Book List**

**Cover page, content page and first page of the selected publication.**

Sr. No .	Name of the Teacher	Department/School/Division/Center/Unit/Cell	Title of the Book	Title of the Paper	Year of Publication	ISBN Number of the Book	Page Number	Publication.
1.	Dr. R.V.Wagh	Geography	Remote Sensing Thchniques and GIS	-	2022	ISBN-978-93-95978-49-1	4-8	Alpha International Publication( AIP), Tamilnadu
2.	Dr. S.S Darade	History	History of Morden India(1857-1971)	-	2022	ISBN-978-94800-08-3	9-13	Nisha Publication, Kanpur, Uttar Pradesh
3.	Dr. R.V.Wagh , Mr. S.K. Auti, Dr.S.K.Ranyewale	Geography	Environmental Ethics, Law and Policy	-	2023	ISBN-978-93-95978-60-6	14-18	Alpha International Publication( AIP), Tamilnadu
4.	Dr. J.C. Sonawane	History	Bhartiy Swatantr Chalvalit Newasa Tatukyache Yogdan	-	2023	ISBN-978-93-83369-45-4	19-22	Sanay Publication, Narayangao n Junnar, Pune



# **REMOTE SENSING TECHNIQUES AND GIS**



**Dr. VYBHAV K**

**Dr. RAJESH VASANTRAO WAGH**

**Mr. VISHAL PRAKASH**

**Mr. PRAJVAL.V**



## Author's Profile



Dr. Vybhav K has Master's degree in Applied Geology and Ph.D. from University Of Mysore, Mysuru. He is currently associated with Department of Mines and Geology, Bangalore, Government of Karnataka, Karnataka as a Geologist. He has more than 3 years of teaching, research and other academic experiences at UG and PG level. To his credit, several number of research papers, Patents, book chapters, and institutional publications have been recorded which are indexed by international and national databases. His area of research and expertise are, Biogeochemistry, Hydrogeology and Geoinformatics. Besides he has more than 3 years of experience in Mineral administration.



Dr. Rajesh Vasantrao Wagh. M.Sc., Ph.D., NET (UGC), MBA (HR). Working as a Head Department of Geography in MES's Arts, commerce and Science College, Sonai, Tal. Nevasa, Dist. Ahmednagar. He is having over 24 years of teaching experience at UG and PG level. He is working as a Ph.D research guide for Savitribai Phule Pune University, Pune and JJJ University, Rajasthan. He has participated in various national and international seminars and conference and he has 18 years research experience in various themes in geography. He has published 16 research papers in various national and international reputed journals. He has completed three minor research projects funded by UGC, New Delhi and BCUD Savitribai Phule Pune University, Pune. One of his books has been published in Lambert Academic Publishing, Germany and also one text book has been published. He is life member of Maharashtra Bhugolshashtra Parishad, Pune. He has been honored with social and educational awards.



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Has an vast experience in teaching and research, served for many prestigious universities and organisations in India, with many national and international patent and renowned awards of excellence.



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## SYLLABUS

### **Unit: I**

Definition of Remote Sensing and its Components – Electromagnetic Spectrum – Wavelength Regions Important to Remote Sensing – Wave Theory, Particle Theory, Stefan - Boltzman and Wein's Displacement Law – Atmospheric Scattering, Absorption – Atmospheric Windows – Spectral Signature Concepts – Typical Spectral Reflective Characteristics of Water, Vegetation and Soil.

### **Unit: II**

Types of platforms – orbit types, Sun-synchronous and Geosynchronous – Passive and Active sensors – resolution concept – Pay load description of important Earth Resources and Meteorological satellites – Airborne and spaceborne TIR and microwave sensors.

### **Unit: III**

Types of Data Products – types of image interpretation – basic elements of image interpretation - visual interpretation keys – Digital Image Processing – Pre - processing – image enhancement techniques – multispectral image classification – Supervised and unsupervised.



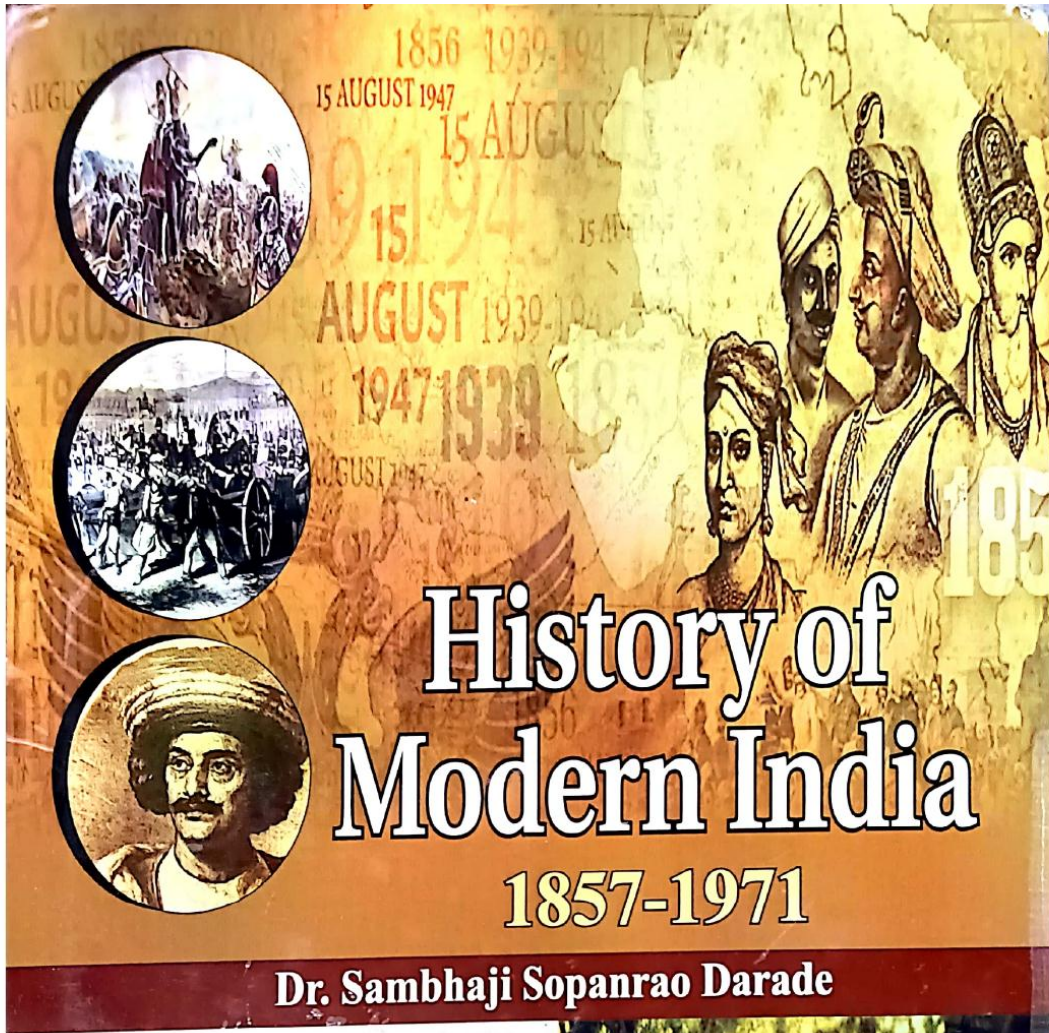
#### **Unit: IV**

Introduction – Maps – Definitions – Map projections – types of map projections  
– map analysis – GIS definition – basic components of GIS – standard GIS  
softwares – Data type – Spatial and nonspatial (attribute) data – measurement  
scales – Data Base Management Systems (DBMS).

#### **Unit: V**

Data Models – Vector and Raster data – Data Compression – Data input by  
Digitization and Scanning – Attribute data Analysis – Integrated data Analysis –  
Modeling in GIS Highway Alignment Studies – Land Information System.







# History of Modern India 1857-1971

## About The Author



**Dr. Sambhaji Sopanrao Darade, M.A., M.Phil., Ph.D.,** Assistant Professor in History is working at Maa Education Society's Art's Commerce and Science College, Sonai, Tal:- Newasa, Dist. Ahmednagar (MS) India, affiliated to Savitribai Phule Pune University, Pune. He did his M.A., B.Ed by Savitribai Phule Pune University, Pune M.Phil by Yashwantrao Chavhan Maharashtra Open University, Nashik. He has been awarded Ph.D. by Dr. Babasaheb Ambedkar Marathwada University; Aurangabad in 2015. He has organized by 4<sup>th</sup> Seminars and Conferences. He has participated in Various International National and State Conferences and Seminars in India. He participated in Workshops, Conferences and Seminars at various places as a Resource Person in Seminars and Conferences. He has Research Projects Completed by UGC and One Project on going MAESA Foundation, Pune. He is Life Member of the Maharashtra Sahitya Parishad. Has also published 31 research articles in reputed Journal International National State level and U.G.C care list Journals. He has been working as an in M.Phil. and Ph.D. guide in Savitribai Phule Pune University, Pune. He is as an **Expert panel to Examine Ph.D. Thesis** at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. His area of **Research Interest is**

Modern India, Medieval India, His book entitled 1. 'History of Medieval India' Chinmay Publications, Aurangabad. 2. 'Maharashtra in the 19<sup>th</sup> Century' Success Publication, Pune. 3. 'Maharashtra in the 20<sup>th</sup> Century' Success Publication, Pune.

### Regional Level Awards-03

- Dr. Babasaheb Ambedkar Shikshk Puraskar. Maharashtra Dalit Sahitya Academy Bhusawal-2002.
- Dnyanoday Bahuuddeshiy Sanstha. Taklibhan Shirampur sahkshnik kary Gaurav Award, Shirampur-2021.
- Mahatma Jyotiba Phule Fellowship National Award, Bharatiya Dalit Sahitya Akademi. New Delhi-2021.

## Contents

Mughals and Pre-Colonial Indian History • East India Company and English Society • The Revolt of 1857 in British India • The British Empire and the Economic :: Development of India (1858-1947) • Socio-Cultural Reform Movements • Beginning of Modern Nationalism in India • Indian National Movement • Civil Society, Colonial Constraints (1885-1919) • The Non-cooperation Movement 1920-22 • Government of India Act 1935 • Towards Independence and Partition • India Foreign Policy.



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# **Environmental Ethics, Law and Policy**

QIP

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Mr. SHARAD KARNASAHEB AUTI  
Lt. Dr. BALU LAXMAN RATHOD  
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## **UNIT – I**

**The Idea of Environment:** Environment: meaning and components- Pollution: meaning, sources, Kinds, and effects of pollution, Ancient and Medieval Writings – Environmental jurisprudence - National environmental policy.

## **UNIT – II**

**Environmental Policy and Law:** Pre & Post Independence Period - Constitutional provisions on Environment and its Protection: Right to Environment – Duty to protect environment – Public interest litigation and environment - Role of Judiciary on Environmental issues - Doctrines of Environmental Pollution: Evolving new Principles – Absolute Liability - Polluter pays principle - Precautionary principle – Inter generational equity principle - Public trust doctrine.

## **UNIT - III**

**International Law and Environmental Protection:** Sustainable Development – International conventions in the development of Environmental Laws and its Policy: Stockholm – Rio & Johannesburg Declaration - Trans-boundary Pollution hazards & Regulation; Common Law aspects of Environmental Protection – Criminal Law and environment.

## **UNIT – IV**

**Prevention and Control of Water & Air Pollution:** Water Act,1974 and Air Act,1981 – Pollution Control Boards and its powers and functions- offences and penalties - Remedies in case of water and air pollution - Noise Pollution and its control: Noise Pollution (Regulation & Control) Rules, 2000 - Wildlife Protection Act, 1972: Hunting – Trade in Animal articles – Authorities under wild life

protection Act- Role of Judiciary on wild life protection – Forest Conservation Act, 1980 – judicial approach.

**UNIT - V**

**Environment Protection Act, 1986** - ECO-Mark, Environmental Audit - Coastal Regulation Zone, Environment Impact Assessment: Discretionary Model and Mandatory Model, Regulation on Bio Medical Waste - Disposal of Solid Waste.

ब्रिटिशांनी पेशवाईचा अंत केल्यानंतर नेवासा ब्रिटिशांच्या सत्तेचा भाग बनला. नेवासा परिसर आणि अहमदनगर जिल्हयाच्या संपूर्ण उत्तर भागात राघोजी भांगरे यांच्या नेतृत्वाखाली ब्रिटिशांच्या विरोधात सशस्त्र उठाव करण्यात आला. ब्रिटिशांनी संकरित जनावरांची पैदास करण्यासाठी नेवासा येथे मुख्य केंद्र स्थापन केले होते. राष्ट्रवादाच्या उदयानंतर संपूर्ण भारतात राष्ट्रीय चळवळ जोर धरू लागली आणि नेवासा सुद्धा याला अपवाद नव्हता. फेब्रुवारी १९२७ मध्ये महात्मा गांधींनी अहमदनगर जिल्हयात काही सभा घेतल्या होत्या तसेच महाराष्ट्र प्रदेश काँग्रेसच्या एका वार्षिक अधिवेशनास पंडित जवाहरलाल नेहरू, सरदार वल्लभभाई पटेल यांसारखे दिग्गज नेते हजर होते. १९२०, १९३० आणि १९४२ च्या तीनही आंदोलनात नेवासा तालुक्यातील जनतेने हिरीरीने सहभाग घेतला होता. कान्हू-काळू सूर्यवंशी या क्रांतीकारकांचे कार्य महत्त्वपूर्ण आहे. १९४२ चे चलेजाव आंदोलन हे प्रमुख नेत्यांच्या अटकेनंतर भूमीगत पद्धतीने चालविण्यात आले, तेव्हा बेलपिंपळगाव येथील छापखान्यात गुप्तपणे ब्रिटिश सरकारच्या विरोधात पत्रके छापली जात होती. यावेळी तालुक्यात अनेक ठिकाणी रास्ता रोक सारखी आंदोलने करण्यात आली. एकूणच नेवासा तालुक्यातील जनता भारतीय स्वातंत्र्यलढयात मोठ्या हिरीरीने सहभागी झाली होती.

- डॉ. लहू गायकवाड,  
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डॉ. जगदिश सोनवणे



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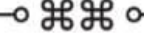
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