



“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
Basics of Remote Sensing**

By

Coordinator

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Submitted to

Internal Quality Assurance Cell (IQAC)

Raje Ramrao Mahavidyalaya, Jath



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- Basics of Remote Sensing

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. To understand the basic concepts of Geographical Information System and GPS.
2. To know various components of GIS and to learn about map projection and coordinate system.
3. To know various applications of GIS and GPS in various fields.
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: 45Days
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
- d. One final examination (One papers) 40 M

1. Exam is of Objective type. Total 25 objective type questions and each question carrying 2 marks. (50 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.** Meaning and Concept of Remote Sensing (12 Lectures)
History of Remote Sensing
- Module** **2.** Component of Remote Sensing (11 Lectures)
Types of Sensors
- Module** **3.** Functioning of Remote Sensing (11 Lectures)
EMR (Electromagnetic Radiation): Characteristics of EMR
- Module** **4.** History of Indian Remote Sensing Programme (11 Lectures)

References:

1. Joseph, G. (2004): Fundamentals of Remote Sensing, Universities Press, Hyderabad, India
2. Lillesand, T. M., Kiefer, R. W. and Chipman, J. W. (2008): Remote Sensing and Image Interpretation, John Wiley & Sons, New Delhi
3. Sabins, F. F. (1996): Remote Sensing: Principles and Interpretation, W.H. Freeman and Company, San Francisco
4. Jensen, J. R. (2005): Introductory Digital Image Processing, Prentice Hall, New Jersey
5. Drury, S. A. (2001): Image Interpretation in Geology, Blackwell, Oxford
6. Campbell, J. (2002): Introduction to Remote Sensing, Taylor & Francis, London
7. Anji Reddy, M. (2008): Textbook of Remote Sensing and Geographic Information System, B.S. Publication, Hyderabad