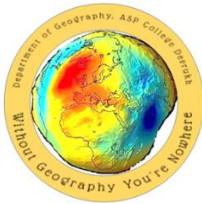




**SECOND-YEAR OF MASTER OF ARTS
MAJOR GEOGRAPHY REVISED SYLLABUS
ACCORDING TO CBCS NEP2020**

**COURSE TITLE: COURSE TITLE: TOOLS AND TECHNIQUES IN
SPATIAL ANALYSIS-II
SEMESTER-III, W.E.F. 2024-2025**



**RECOMMENDED BY THE BOARD OF STUDIES IN GEOGRAPHY
AND**

**APPROVED BY THE ACADEMIC COUNCIL
Devrukh Shikshan Prasarak Mandal's**

**Nya. Tatyasaheb Athalye Arts, Ved. S. R. Sapre Commerce, and
Vid. Dadasaheb Pitre Science College (Autonomous), Devrukh.
Tal. Sangmeshwar, Dist. Ratnagiri-415804, Maharashtra, India**

Academic Council Item No: 03

Name of the Implementing Institute	:	Nya. Tatyasaheb Athalye Arts, Ved. S. R. Sapre Commerce and Vid. Dadasaheb Pitre Science College (Autonomous), Devrukh. Tal. Sangmeshwar, Dist. Ratnagiri-415804,
Name of the Parent University	:	University of Mumbai
Name of the Programme	:	Master of Arts
Name of the Department	:	Geography
Name of the Class	:	Second Year
Semester	:	Third
No. of Credits	:	02
Title of the Course	:	Tools and Techniques in Spatial Analysis - II
Course Code	:	A605GEP
Name of the Vertical in adherence to NEP 2020	:	Major
Eligibility for Admission	:	NA
Passing Marks	:	40%
Mode of Assessment	:	Summative
Level	:	PG
The pattern of Marks Distribution for TE and CIA	:	NA
Status	:	NEP-CBCS
To be implemented from the Academic Year	:	2024-2025
Ordinances/Regulations(if any)		

Syllabus for Second Year of Master of Arts in Geography

(With effect from the academic year 2023-2024)

SEMESTER-III

Paper No.-V

Course Title: Tools and Techniques in Spatial Analysis-II

No. of Credits - 02

Type of Vertical: Major

COURSE CODE: A605GEP

Learning Outcomes Based on BLOOM's Taxonomy:

After completing the course, the learner will be able to...

Course Learning Outcome No.	Blooms Taxonomy	Course Learning Outcome
CLO-01	Remember	Remember the fundamentals of Surveying.
CLO-02	Understand	Understand the principles of the plain-table survey; prismatic compass survey; chain and tape survey; and Dumpy level & theodolite survey.
CLO-03	Apply	Apply the plain-table survey; prismatic compass survey; chain and tape survey; and Dumpy level & theodolite survey for mapping.
CLO-04	Analyse	Analyze the applications of plain-table survey; prismatic compass survey; chain and tape survey; and Dumpy level & theodolite survey for mapping.
CLO-05	Evaluate	Evaluate a plain-table survey; prismatic compass survey; chain and tape survey; and Dumpy level & theodolite survey for mapping.
CLO-06	Create	Create a map for a land parcel using a plain-table survey; prismatic compass survey; chain and tape survey; and Dumpy level & theodolite survey for mapping techniques

Syllabus for Second Year of Master of Arts in Geography

(With effect from the academic year 2023-2024)

SEMESTER-III

Paper No.-IV

Course Title: Tools and Techniques in Spatial Analysis-III

No. of Credits - 02

Type of Vertical: Major

COURSE CODE: A504GEP

Course Content

1. Chain and Tape Survey

- 1.1. Chain Triangulation Survey
- 1.2. Cross Staff Survey
- 1.3. Chain and Tape-Open Traverse Survey
- 1.4. Chain and Tape-Close Traverse Survey

2. Plane Table Survey

- 2.1. Plane Table Survey-Radial Method
- 2.2. Plane Table Survey-Intersection Method
- 2.3. Plane Table Survey-Open Traverse Method
- 2.4. Plane Table Survey-Close Traverse Method

3. Prismatic Compass Survey

- 3.1. Prismatic Compass Survey-Intersection Survey
- 3.2. Prismatic Compass Survey-Open Traverse Survey
- 3.3. Prismatic Compass Survey-Close Traverse Survey

4. Dumpy level and Theodolite Survey

- 4.1. Clinometer Survey
- 4.2. Dumpy Level Survey
- 4.3. Theodolite Survey

Required Previous Knowledge

No previous Knowledge is necessary to learn the course.

Access to the Course

The course is available for all the students admitted for Master of Arts.

Methods of Assessment:

Vocational skill Courses, Skill Enhancement Courses and courses having laboratory sessions shall be assessed at the end of each semester.

Grading Scale

The grading scale used is O to F. Grade O is the highest passing grade on the grading scale, and grade F is a fail. The Board of Examinations of the college reserves the right to change the grading scale.

References:

1. Gopal Singh (2009): Map Work and Practical Geography, Vikas Publishers House, New Delhi
2. Ashish Sarkar (2011): Practical Geography - A Systematic Approach, Orient Blackswan, Private Limited, Hyderabad.
3. डॉ. अर्जुन कुंभार (१९९३); प्रात्यक्षिक भूगोल, सुमेरू प्रकाशन
4. Anderson J. M. and E. M. Mikkhail (1985): Introduction to Surveying, McGraw Hill Book Co. NY
4. R. Ben Buckner (2001): Land Survey Review Manual (Hardcover), Amazon Books