



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

COURSE TITLE: TOOLS AND TECHNIQUES IN HEALTH
GEOGRAPHY
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 Health Geography
Course Code	:	A608GEP
Name of the Vertical in adherence to NEP 2020	:	Major Elective
Eligibility for Admission	:	-
Passing Marks	:	40%
Mode of Assessment	:	Summative
Level	:	PG
The pattern of Marks Distribution for TE and CIA	:	
Status	:	NEP-CBCS
To be implemented from the Academic Year	:	2024-2025
Ordinances/Regulations (if any)	:	

Syllabus for Second Year of Bachelor of Arts in Geography**(With effect from the academic year 2024-2025)****SEMESTER-III****Paper No.–VIII-P****Course Title:** Tools and Techniques in Health Geography**No. of Credits - 02****Type of Vertical:** Major Elective**COURSE CODE:** A608GEP**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	recall the vector and raster analysis in GIS.
CLO-02	Understand	describe the applications of GIS in health studies
CLO-03	Apply	apply the vector and raster models of GIS in health studies
CLO-04	Analyze	illustrate the spatial and temporal patterns of health issues.
CLO-05	Evaluate	choose an appropriate technique for the representation of health issues.
CLO-06	Create	create thematic maps to depict the patterns related to health issues.

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COURSE CONTENT			
Module No.	Content	Credits	No. of Lectures
1	Geoinformatics and database for health care <ul style="list-style-type: none"> ○ GIS database for diseases-: spatial and non-spatial ○ Vector and raster data for health care, techniques for analysis ○ GIS model for healthcare accessibility, plume model, star model ○ Web-based GIS for control of communicable diseases 	01	30
2	Case Study: <ul style="list-style-type: none"> ○ Collect and analyse the health-related data using GIS. 	01	30
	Total	0	

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.

Reference Books:

- 1) Bracken, I, and Webster, C,(1990):Information Technology, Geography and Planning, Routledge, London and New York
- 2) Pickles, John (Ed.) (1995): Ground Truth : The Social Implications of Geographical Information Systems, The Guilford Press, New York.
- 3) Ahmad,S, Sais.S, and Muddassir, S.M. (2011):Remote sensing and GIS for Environmental Management, World Education, Delhi
- 4) Birkin,M et al,(1996): Intelligent GIS: Location Decisions and Strategic Planning, Geoinformation International, Cambridge, UK.
- 5) Dantas,Anandi,(2011): Mapping of urban Health Facilities in Maharashtra, Centre for Enquiry into Health and Allied Themes(CEHAT), Mumbai
- 6) Masser, Ian (1998): Government and Geographical Information Systems, Taylor & Francis Group, London.
- 7) SteinBerg, S.J., and Steinberg, S.L.,(2006): Geographic Information Systems for Social Sciences: Investigating Space and Place, Sage Publications, California.