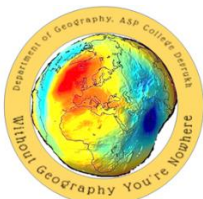




FIRST-YEAR OF MASTER OF ARTS IN GEOGRAPHY REVISED SYLLABUS ACCORDING TO CBCS NEP2020

COURSE TITLE: RESEARCH METHODOLOGY
SEMESTER-I, W.E.F. 2023-2024



**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

Name of the Implementing Institute	:	Nya. TatyasahebAthalye 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	:	Masters of Arts
Name of the Department	:	Geography
Name of the Class	:	First Year
Semester	:	First
No. of Credits	:	04
Title of the Course	:	Research Methodology
Course Code	:	A506GET
Name of the Vertical in adherence to NEP 2020	:	Major
Eligibility for Admission	:	UG degree in Geography
Passing Marks	:	40%
Mode of Assessment	:	Formative and Summative
Level	:	PG
Pattern of Marks Distribution for TE and CIA	:	60:40
Status	:	NEP-CBCS
To be implemented from Academic Year	:	2023-2024
Ordinances/Regulations(if any)		

Syllabus for First Year of Masters of Arts in Geography

(With effect from the academic year 2023-2024)

SEMESTER-I

Paper No.–Geography Paper –VI

Course Title: Research Methodology

No. of Credits - 04

Type of Vertical: Major

COURSE CODE: A506GET

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	Fundamentals of the research
CLO-02	Understand	Understand the types of research, hypothesis, sampling & data collection method
CLO-03	Apply	Apply the sampling techniques, hypothesis testing method, and research design structure in the research
CLO-04	Analyze	Analyze the various data analysis methods in research
CLO-05	Evaluate	Evaluate the changing nature & type of geographical data
CLO-06	Create	Create your research project according to the research design

Syllabus for First Year of Masters of Arts in Geography

(With effect from the academic year 2023-2024)

SEMESTER-I

Paper No.–Geography Paper – VI

Course Title: Research Methodology

No. of Credits - 04

Type of Vertical: Major

COURSE CODE: A506GET

COURSE CONTENT			
Module No.	Content	Credits	No. of Lectures
1	Introduction to Research Methodology ○ Defining research- Methods of research types, significance of geographical research, research ethics ○ Scientific method in geographical studies, inductive and deductive, basic elements and attributes Scale of research: Macro, Meso, Micro Problem formulation and identification. ○ Review of Literature: Significance and sources of literature review ○ Research Design: meaning, stages, characteristics and significance of research design	01	15
2	Research Hypothesis and Sampling ○ Meaning of Hypothesis, relevance and types of hypotheses ○ Identification of problem and hypothesis: Problem identification, statement of hypothesis, testing of hypothesis, generalization Earthquake: distribution, causes & effects ○ Sampling: Meaning and importance, types of sampling, Selection of sample and size of sample ○ Nature and type of Geographical data, significance of spatial and temporal data in geographical studies	01	15
3	Data analysis in Geography ○ Levels of measurements: Nominal, Ordinal, Ratio and Interval, and its applications ○ Methods and sources of geographical data collection: conventional and modern; limitations of secondary data and need for data generation ○ Collection of primary data: questionnaires and schedules, field work, sample surveys and their significance, difference between questionnaire and schedule	01	15

	○ Geographic Data analysis: Qualitative, Quantitative and Advanced techniques of geographic data processing and analysis, geographical matrix and its significance in the analysis of Geography data		
4	Research design and practical approach ○ Appraisal of the Problem, Selection and justification of the problem, literature review, aim and objectives, Research Methodology, characterisation, etc. ○ Data analysis- Qualitative and Quantitative, result, conclusion, suggestions, etc. ○ Research Design-Referencing system, webography and bibliography. ○ Conceptual background - Plagiarism, design, concept of impact factor, citation, DOI		
	Total	04	60

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:

The assessment pattern would be 60:40, 60% for Semester End Examination (SEE) and 40 % for Continuous Internal Assessment (CIA). The structure of the SEE and CIA would be as recommended by the Board of Studies and approved by the Board of Examination and the Academic Council of the college.

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. . Karlekar Shrikant and Kale Mohan (2005): Statistical analysis of Geographical data, Dimond publication
2. Burt, J.E. and Barber, G.M. (1996): Elementary statistics for Geographers, The Guilford press, New York.
3. Clark, W.A.V. and Hosking, P.C(1986): Statistical Methods for Geographers, John

4. Dickinson, G.C. (1977): Statistical Mapping and presentation of statistics, Edward Arnold limited London.
5. Ebdon David (1989): Statistical for Geographers
6. Geoge Joseph (2003): Fundamental of Remote Sensing, Universities Press, Hyderabad.
7. Gregory, S.(1963) : Statistical Methods and Geographer Longman Group Ltd; London
8. Kanetkar T. P. &Kulkarni S.V. (1986):. Surveying & leveling, VidyarthiGrihaPrakshan, Pune
9. Keates, J.S.(1973) : Cartographic design and production 2ndEdn;. Longman group
10. Limited, London.
11. Keates, J.S.(1996) : Understanding Maps, 2ndEdn; Longman group limited, London.
12. King, (1975): Statistical Geography
13. Maling .H. (1973) : Co ordinates systems and map projections, George Philip, London.
14. Maslov A. V.Gordeev A. V. Batrakov Yu. G. (1984) : Geodetic surveying, Mir Publishers, Moscow
15. Monmonier, Mark S.(1982): Computer Assisted Cartography: Principals & prospects, Pprentice Hall, Inc, London.
16. Norcliff, G.B.(1982) Inferential Statistics for Geographers Hutchinson, London.
17. Norcliffe G. B. (1977): Inferential statistics for Geographers (Hutchinson, London)17) P. A. Burrough and R.A. McDonnell (2000): Principle of Geographical Information System, Oxford
18. Richardus P., Adler Ron K (1972) : Map projections, North Holland publ. Co. Amsterdam
19. Robinson, A.H.et al.(1985): Elements of Cartography, Vol.VI, John Wiley and Sons, New York.
20. Rogerson P. A. (2001): Statistics for Geography (SAGE pub., London, New Delhi}
21. Shaw G and Wheller D. (1985): Statistical techniques in geographical analysis. John Wiley and sons,
22. Singh &Kanauja : Map work and Practical Geography.
23. Sumner G J (1978): Mathematics for physical geographers. Edward Arnols
24. Taylor, P.J.(1977): Quantitative Methods in Geography. HoughtonMifflim Company, Boston University Press.
25. V. Natarajan P., Adler Ron K:. Advanced Surveying, B. 1 Publ. Bombay

26. Watson, G. and McGraw, D.(1980): Statistical Inquiry, John Wiley and sons, New York.
27. Yeates, M. (1974). An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York.
28. Hammerton, M.(1975) Statistics for Human Sciences, Longman Group Ltd, Barlow.
29. Jones, Christopher (1997): Geographical Information System and Computer Cartography, Addison Wesley Longman Limited, England.
30. Wicox, R.R.(2003) : Applying Contemporary Statistical Techniques Academic Press, Amsterdam.
31. Wilsons, A.G. & Bennet, R.J.(1985): Mathematical Methods In Human Geography And Planning, John Wiley & Sons, New York.