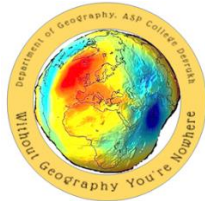




**FIRST-YEAR OF MASTER OF ARTS
MAJOR GEOGRAPHY REVISED SYLLABUS
ACCORDING TO CBCS NEP2020**

**COURSE TITLE: DIGITAL CARTOGRAPHY
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	:	Master of Arts
Name of the Department	:	Geography
Name of the Class	:	First Year
Semester	:	First
No. of Credits	:	02
Title of the Course	:	Digital Cartography
Course Code	:	A508GET
Name of the Vertical in adherence to NEP 2020	:	Major Elective
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 the Academic Year	:	2023-2024
Ordinances/Regulations(if any)		

Syllabus for First Year of Master of Arts in Geography

(With effect from the academic year 2023-2024)

SEMESTER-I

Paper No.–VIII

Course Title: Digital Cartography

No. of Credits - 02

Type of Vertical: Major Elective

COURSE CODE: A508GET

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 Cartography
CLO-02	Understand	Understand the basic concepts concerning Cartography
CLO-03	Apply	Apply the cartographic understanding to Map preparation
CLO-04	Analyse	Analyse the Cartography Vs. Digital Cartography
CLO-05	Evaluate	
CLO-06	Create	Create a Cartographic Output

Syllabus for First Year of Master of Arts in Geography
(With effect from the academic year 2023-2024)

SEMESTER-I

Paper No.–VIII

Course Title: Digital Cartography

No. of Credits - 02

Type of Vertical: Major Elective

COURSE CODE: A508GET

Module No.	Content	Credits	No. of Lectures
1	<p>Module -1: Fundamentals of Cartography</p> <ul style="list-style-type: none"> ○ Concept and principles of cartography; ○ Scale- definition, types and importance, ○ Concept of datum- vertical and horizontal, ○ Co-ordinate systems- geographical and projected, ○ Map- definition, types and significance, ○ Cartographic methods and techniques for the preparation of maps and diagrams, ○ Sources of cartographic data. 	01	15
2	<p>Module -2: Digital Cartography</p> <ul style="list-style-type: none"> ○ Introduction to digital cartography ○ Manual cartography vs. Digital cartography ○ Cartographic data and its sources, Cartographic database, Map design, Digital mapping- Thematic maps Symbolization and visualization, ○ Digital cartography- hardware and software, ○ Advantages and disadvantages, ○ Applications of digital cartography 	01	15

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.

Reference Books:

1. Bailey, T. and Gatrell, A. C. (1995): Interactive Spatial Data Analysis. Longman, Harlow.
2. Dorling, D. and Fairborn, D. (1997): Mapping. Ways of Representing the World. Longman, Harlow.
3. Fraser Taylor, D.R. (1980): The Computer in Contemporary Cartography. John Wiley and Sons, New York.
4. Fraser Taylor, D.R. (ed.) (1983): Graphic Communication and Design in Contemporary Cartography. John Wiley and Sons, New York.
2. Kanetkar, T.P. and Kulkarni, S.V. (1967): Surveying and Levelling, Part II, A.V.G. Prakashan, Poona. Keates, J.S. (1973): Cartographic Design and Production, Longman Group Ltd.
3. Mailing, D.H. (1973): Co-ordinate Systems and Map Projections. George Philip and Sons Ltd.
4. Monkhouse, F.J. and Wilkinson, H. R (1962): Maps and Diagrams, Methuen and Company Ltd. and Company Ltd., London.
5. Nag, P. (ed.) (1984): Census Mapping Survey, Concept Publishing Company, New Delhi.
6. Nair, N. B. (1996): Encyclopaedia of Surveying, Mapping and Remote Sensing. Rawat Publications., Jaipur and New Delhi.
7. Raisz, E. (1962): Principles of Cartography. McGraw Hill Books Company, Inc., New York.
8. Misra, R.P. and Ramesh, A. (1999): Fundamentals of Cartography. Concept Publishing Company, New Delhi.

9. Rhind, B. and Adams, T. (ed.) (1983): Computers in Cartography. British Cartographic Society, London.
10. Rice Oxley, M.K. and Shearer, W.V. (1929): Astronomy for Surveyors. Methuen and Company Ltd. and Company, London.
11. Robinson, A. H. H., Sale R., Morrison J. and Muehrcke, P. C (1984): Elements of Cartography. 6th edition John Wiley and Sons, New York.
12. Shaw, G. and Wheeler, D. (1994): Statistical Techniques in Geographical Analysis. Prentice Hall, Englewood Cliffs, New Jersey.
13. Singh, R. L. and Singh, Rana P.B. (1993): Elements of Practical Geography. Kalyani Publishers, Ludhiana and New Delhi. (English and Hindi editions).
14. Strahler, A. N. (1971): The Earth Sciences. Harper and Row Publishers; New York.
15. Thrower, N. (1996): Maps and Civilisation. Cartography, Culture and Society. University of Chicago Press, Chicago.
16. Unwin, D. (1982): Introductory Spatial Analysis. Methuen and Company Ltd., London.
17. Walford, N. (1995): Geographical Data Analysis. John Wiley and Sons, Chichester.
18. Duggal, S. K. (2014) : Surveying McGraw Hill Education (India) Private Limited, Forth edition, Delhi