FIRST-YEAR BACHELOR OF ARTS
OPEN ELECTIVE COURSE FOR THE BASKET
REVISED SYLLABUS ACCORDING TO CBCS NEP2020

COURSE TITLE: THEMATIC MAPPING SKILLS USING Q-GIS
SEMESTER-II, 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

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	:	Bachelor of Arts
Name of the Department	:	Geography
Name of the Class	:	First Year
Semester	:	Second
No. of Credits	:	02
Title of the Course	:	Thematic Mapping Skills Using Q-GIS
Course Code	:	GEOE102
Name of the Vertical in adherence to NEP 2020	:	Open Elective Course (OE)
Eligibility for Admission	:	Any student seeking Admission to the Degree Programme in Arts, Science and Commerce Faculty in adherence to the Rules and Regulations of the University of Mumbai and the Government of Maharashtra is eligible to choose the course.
Passing Marks	:	40%
Mode of Assessment	:	Summative
Level	:	UG
The pattern of Marks Distribution for TE and CIA	:	NA
Status	:	NEP-CBCS
To be implemented from the Academic Year	:	2023-2024
Ordinances /Regulations (if any)		

Syllabus

(With effect from the academic year 2023-2024)

SEMESTER-I **COURSE CODE:** GEOE102

Course Title: Thematic Mapping Skills Using Q-GIS **No. of Credits -** 02

Type of Vertical: Open Elective Course

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 Q-GIS.
CLO-02	Understand	Understand how to incorporate the elements of maps using Q-GIS.
CLO-03	Apply	Apply Q-GIS in Thematic Mapping
CLO-04	Analyze	Analyze the different types of thematic maps prepared through Q-GIS
CLO-05	Evaluate	Evaluate the infographics provided through thematic maps in Q-GIS
CLO-06	Create	Create his/her thematic map using Q-GIS

Syllabus

(With effect from the academic year 2023-2024)

SEMESTER-I **COURSE CODE:** GEOE102

Course Title: Thematic Mapping Skills Using Q-GIS **No. of Credits -** 02

Type of Vertical: Open Elective Course

Type of Vertical: Skill Enhancement Course

COURSE CONTENT			
Module No.	**Content**	**No. of Credits**	**No. of Lectures**
1	**Spatial Thematic Maps Using Q-GIS** o Choropleth Map o Dot Map: Simple and Proportionate o Choro-Chromatic Map o Choro-Schematic Map o Isopleth Map o Isoline Maps o Proportionate Symbols: Located Proportional Circles, Located Divided Circles, located proportionate and Divided Circles, Located Bars, Located Line Graph, o Located Square Map o	1	30
2	**Qualitative Thematic Maps Using Q-GIS** o Communication and Transportation Maps o Ethnography Maps o Linguistic Maps o Military History Maps o Urban Planning Maps o Pictorial Map o Land Used and Land Cover Map	1	30
	Total	2	60

Required Previous Knowledge

No previous knowledge is required to learn the subject.

Access to the Course

The course is available for all the students admitted to Bachelor of Arts, Commerce and Science.

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. Q-GIS Manual
2. Slocum, Terry A., 1999, Thematic Cartography and Visualization, Prentice-Hall, Upper Saddle Creek, NJ. www.prenhall.com/slocum
3. MacEachren, Alan M. 1994. Some Truth with Maps: A Primer on Symbolization and Design, Resource Publications in Geography, Washington, DC
4. Carter, James, 1984 Computer Mapping (Progress in the '80s), Resource Publications in Geography, Washington, DC: Association of American Geographers.
5. Dent, Borden D., 1999, Cartography: Thematic Map Design, 5th edition, Boston: WCB/McGraw-Hill.
6. Jones, Christopher, 1997, Geographical Information Systems and Computer Cartography, Harlow, U.K., Addison-Wesley Longman.
7. Kraak, Menno-Jan, Ormeling, Ferjan, 1996, Cartography: Visualization of Spatial Data, Addison-Wesley Publishing.
8. Madej, Ed., 2000, Cartographic Design Using Arcview GIS, 1st edition, OnWord Press.
9. Monmonier, Mark, 1996, How to Lie With Maps, 2nd.Edition, Chicago: University of Chicago Press
10. Monmonier, Mark, 1997, Cartographies of Danger, Mapping Hazards in America, Chicago: University of Chicago Press.
11. MacEachren, Alan, M., 1995, How Maps Work, Representation, Visualization, and Design, Guilford Press
12. Robinson, Arthur H., Morrison, Joel L., Muehrcke, Phillip C. and Stephen C. Guptill, 1995, Elements of Cartography, 6th edition, NY: John Wiley & Sons
13. ESRI, Serving Maps on the Internet, Redlands CA: ESRI Press