

Academic Council
Item No: _____

Devrukh Shikshan Prasarak Mandal's

NYA. TATYASAHEB ATHALYE ARTS, VED. S.R. SAPRE COMMERCE &

VID. DADASAHEB PITRE SCIENCE COLLEGE, DEVRUKH

[AN AUTONOMOUS COLLEGE AFFILIATED TO UNIVERSITY OF MUMBAI]



Syllabus for First Year of M.A./ M. Sc.

Program: M.A./ M. Sc.

Course: Geography

Course Code: PAGEO11

Semester I

Geography Paper - I: Principles of Geomorphology

Credit Based Semester and Grading System with the Effect from

Academic Year 2019-20

M.A./ M. Sc. General (Semester Pattern)
First Year M.A./ M. Sc.
Semester-I

GEOGRAPHY – CURRICULUM

| Paper Code | Paper | Lectures /Practical | Evaluation Weightage | | | Credits |
|------------|--|---|----------------------|-----------|------------|-----------|
| | | | External | Internal | Total | |
| PAGEO11 | Geography Paper-I Principles of Geomorphology | 60 Contact + 60 Notional | 70 | 30 | 100 | 04 |
| PAGEO12 | Geography Paper-II Principles of Climatology | 60 Contact + 60 Notional | 70 | 30 | 100 | 04 |
| PAGEO13 | Geography Paper-III Perspectives in Human Geography | 60 Contact + 60 Notional | 70 | 30 | 100 | 04 |
| PAGEO14 | Geography Paper-IV Spatial Organisation of Economic activities | 60 Contact + 60 Notional | 70 | 30 | 100 | 04 |
| PAGEO15 | Practical Paper-I Tools and Techniques of Spatial Analysis - I | 60 Contact + 60 Notional | 100 | | | 04 |
| PAGEO16 | Practical Paper-II Tools and Techniques of Spatial Analysis - II | 60 Contact + 60 Notional | 100 | | | 04 |

**Syllabus for First Year M.A./ M. Sc. Programme in the subject of Geography
(With effect from the academic year 2019-2020)**

Semester-I, Geography Paper – I: Principles of Geomorphology

Teaching Hours **60** + Notional Hours **60**= Total hours **120**

COURSE CODE: PAGE011

Credits - 04

| Learning Objectives | | | |
|--|---|----------------|------------------------|
| <ul style="list-style-type: none"> ➤ The course provides an overview of Geomorphology, the interior of the earth, earth movements, landform development processes, and practical component based on it. ➤ It aims to shed light on the definition, nature, and scope of geomorphology, the composition of the earth interior, geological time scale, continental drift theory and theory of plate tectonics and sea-floor spreading and the role of plate tectonics in folding, faulting, volcanic eruption and earthquake, and geomorphic processes in the development of landforms with special reference to the Konkan region. ➤ The course shall further convey an understanding of landforming processes on different temporal and spatial magnitudes. | | | |
| COURSE CONTENT | | | |
| Topic No. | Content | Credits | No. of Lectures |
| 1 | Fundamentals of Geomorphology <ul style="list-style-type: none"> ○ Definition, Nature, and scope of Geomorphology ○ Geological Evolution of Earth ○ Geological time scale ○ Development of geomorphic thought- Fundamental Concepts in Geomorphology | 01 | 15 |
| 2 | Interior of the Earth and Earth Movements <ul style="list-style-type: none"> ○ Continental Drift Theory - Sea-floor spreading - Plate Tectonics ○ Geosynclines: Geosyncline Theory of Kobber, Holmes' Convection Current Theory, ○ Theories of Isostasy ○ Endogenic Movements- types, consequences (earthquakes and volcanoes) and landforms | 01 | 15 |
| 3 | Geomorphic Processes and Landform Development <ul style="list-style-type: none"> ○ Fluvial Geomorphic system: processes and resulting landforms ○ Glacial Geomorphic system: geomorphic processes and features ○ Karst landscape: development and processes ○ Aeolian Geomorphic system: processes and landforms ○ Coastal Geomorphic system: processes and landforms | 01 | 15 |
| 4 | Major Geomorphic Theories <ul style="list-style-type: none"> ○ Geomorphic Theory of G. K. Gilbert ○ Geomorphic Theory of Davis ○ Geomorphic Model of Penck ○ Geomorphic Model of L. C. King | 01 | 15 |
| Total | | 04 | 60 |

Learning Outcomes

On completion of the course the student should have the following learning outcomes defined in terms of knowledge, skills and general competence:

Knowledge

The student can explain the nature and scope of Geomorphology, the interior of the earth, types of rocks and minerals, plate tectonics on the earth's surface and its relation with folding, faulting, volcanic eruptions and earthquakes, landforming processes and basic theories related to landform development and slope.

Skills

The student can plan and carry out a geomorphological field investigation in the locality and identify the changing nature of the interior of the Earth.

General competence

The student can apply a precise geomorphological language to describe and discuss geomorphological processes with context to the Konkan region.

Required Previous Knowledge

Knowledge of fundamentals of Geography, branches of Geography, the interior of the earth is necessary before to start to learn the course

Access to the Course

The course is compulsory and it is available for all the students admitting for the Master of Arts in Geography.

Forms of Assessment

The assessment will be external as well as internal. **The pattern of external and internal assessment will be 70:30.** The question paper pattern will be as given below.

External evaluation (70 Marks)

Question Paper Pattern

Time: 2.5 hours

| Question No. | Unit/s | Question Pattern | Marks |
|--------------|--------|--|-----------|
| Q.1 | All | Fill in the Blanks | 14 |
| Q.2 | All | Explain Any four concepts from the following (Out of six) (Knowledge-Based Question) | 20 |
| Q.3 | All | Attempt Any two questions from the following (Out of four) (Skill-Based Question) | 20 |
| Q.4 | All | Attempt any one question from the following (Out of four) (Long Answer Question based on General Competence) | 16 |
| Total | | | 70 |

Internal evaluation (30 Marks)

| Sr. No. | Description | Marks |
|----------------|--|--------------|
| 1 | Test (Preferably Online Test with Fifteen Minutes Duration- MCQ, Match the following, True or False, etc.) | 10 |
| 2 | Project Report/ Seminar/ Group Discussion/ Any other assignment as allocated by the teacher | 10 |
| 3 | Overall Conductance | 10 |
| | Total | 30 |

Grading Scale

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

References:

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- Anhert, F., (1996), 'Introduction to Geomorphology', Arnold, London, Sydney, Aukland
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