Fergusson College (Autonomous)

Pune

Learning Outcomes-Based Curriculum

for

F.Y.B. A. Geography (General)

With effect from June 2019

Programme Structure

F.Y. B.A.		
Semester	**New CBCS Pattern**	**Old /Existing Pattern**
Sem I	Geomorphology-I (Geography) GEO1101 (**Credits 03)**	Geomorphology-I (Geography) GEO1101 (**Credits 03)**
Sem II	Geomorphology-II (Geography) GEO1201(**Credits 03)**	Geomorphology-II (Geography) GEO1201 (**Credits 03)**
S.Y. B.A.		
Sem III	DSE 1A (3 credits) XXX2301: Title: ……NA……	Special Paper 1 Title: ……NA……
	DSE 2A (3 credits) XXX2302: Title: …….NA…..	Special Paper 2 Title: ……NA……
	SEC 1A (3 credits) GEO2303: Title: **Fundamentals of Climatology**	General Paper 2 Title: **Fundamentals of Climatology**
	SEC 2A (1 credits) (Value/Skill Based) XXX2304: Title: ……NA…	----
Note: SEC 1A is CC '1 or 2' (General paper for other department students)		
Sem IV	DSE 1B (3 credits) XXX2401: Title: ……NA……..	Special Paper 1 Title: ……NA……
	DSE 2B (3 credits) XXX2402: Title: ……NA……..	Special Paper 2 Title: ……NA……
	SEC 1B (3 credits) GEO2403: Title: **Fundamentals of Oceanography**	General Paper 2 Title: **Fundamentals of Oceanography**
	SEC 2B (1 credits) (Value/Skill Based/ Field Work of SEC-1B) XXX2404: Title: ……NA……..	----
SEC 1B is CC-'1 or 2' (General paper for other department students)		

T.Y. B.A.		
Semester	**New CBCS Pattern**	**Old /Existing Pattern**
Sem V	Human Geography GEO3501 (**Credits 03)**	Human Geography GEO3501 (**Credits 03)**
Note: SEC 1C is CC '1 or 2' (General paper for other department students)		
Sem VI	Political Geography GEO3601 (**Credits 03)**	Political Geography GEO3601 (**Credits 03)**
Note: SEC 1D is CC-'1 or 2' (General paper for other department students)		

F.Y. B.A. Semester I		
Title of the Course and Course Code	**Geomorphology-I (Geography) (GEO1101)**	**Number of Credits : 03**
Course Outcomes (COs) **On completion of the course, the students will be able to:**		
CO1	Define and describe the various branches of Physical Geography and Geomorphology.	
CO2	Explain and compare various theories related to the origin of continents and oceans.	
CO3	Classify various rocks according to their characteristics and properties.	
CO4	Differentiate between the Orogenic and Epiorogenic movements in interior of the Earth.	
CO5	Evaluate the causes and effects of volcanoes and earthquakes.	
CO6	Develops different models of geographical processes in nature by field visits.	

Unit No.	Title of Unit and Contents
I	**Introduction to Geomorphology:** Definition and meaning, Importance of Geomorphology, Branches of Geomorphology: Coastal, Fluvial, Quantitative, etc.
II	**The earth** – its Interior, Composition& Structure Theories of origin of continents & oceans Wegener's Continental Drift Holmes's Convection Current theory Theory of Plate Tectonics Theory of Isostasy
III	**Rocks & Minerals:** Rocks- Definition ,Types & properties, Economic uses of rocks
IV	**Diastrophism:** Orogenic and Epiorogenic movements Folding: concept and Types Faulting : Concept and Types
V	**Volcanoes and Earthquakes:** Volcano Meaning& Causes, Types of volcano, Landforms of Volcano, Global Distribution of volcanoes, **Earthquakes** Meaning & Causes, Intensity and scales of earthquakes , Earthquake waves, Global Distribution of Earthquakes, Earthquake zones of India.
VI	**Practical:** Field Visit, Study of Model Making, Identification of Rocks, Finding Epicentre of Earthquake

F.Y. B.A. Semester II		
Title of the Course and Course Code	**Geomorphology-II (Geography) (GEO1201)**	**Number of Credits : 03**
Course Outcomes (COs) **On completion of the course, the students will be able to:**		
CO1	Define various processes of weathering and mass wasting.	
CO2	Differentiate between the landforms of erosion and deposition of various geomorphic agents.	
CO3	Examine the variety of slops and their uses for men.	
CO4	Analyze and compare different methods of slope stability, land management and watershed management.	
CO5	Compare techniques used in Aerial Photography and Remote sensing in geography.	
CO6	Prepare cross sections of various landforms on the Earth with contors.	

Unit No.	Title of Unit and Contents
I	**Weathering and Mass wasting:** Weathering: Definition and Types Mass wasting : Definition and Types
II	**Geomorphic Processes & Landforms**: Fluvial, Glacial, Coastal, Aeolian
III	**Hill Slopes**: Meaning & Definition of slope, Types of slopes and slope segments, Uses and importance of slope studies
IV	**Applications of Geomorphology:** Geomorphology & Slope stability, Geomorphology & Landuse Assessment, Concept of watershed management, Concept of Landform Management
V	**Basics of Remote Sensing:** Aerial Photos: Meaning & Concepts, Identification of landforms from Aerial photos, Remote Sensing : Meaning & Concepts, Platforms & Scanners, Importance of Remote Sensing in Geomorphology
VI	**Practical** Contors: Meaning & characteristics, Cross Section of Contors Representation of Relief features by Contors

References:

1. Physical Geography: Science and Systems of the Human Environment**,** Alan H. Strahler , Wiley & Son, 3rd Edition, 2005.
2. Introducing Physical Geography: Alan H. Strahler, Wiley Intl., 6th Edition, 2013.
3. Fundamental of Physical Geography: Majid Husain. Rawat Publications, Jaipur. (4th ed.); 2009.
4. Physical Geography: Savindra Singh. Pravalika Publications, Allahabad. Paperback edition 2013.
5. The Earths Dynamic Surface: Siddhartha K. Kisalaya Publication Pvt. Ltd New Delhi; 2015.
6. Introduction to Geomorphology: Kale V. & Gupta A., Oxford University Press, Kolkata; 2001.
7. Geomorphology: Savindra Singh. Prayag Pustak Bhawan, Allahabad, 2006.
8. The Oxford Companion to the Earth: Ed. Paul Hancock & Brian Skinner. Oxford University Press.2000.
9. Principles of Petrology, Tyrrell, G.W., Champman and Hall Ltd., 1978.
10. Introduction to Remote Sensing, James B. Campell, Taylor & Francis Ltd. 2nd Edition,1996.
11. Prakrukik Bhugol aani Bhurupashastra (Marathi): Shrikant Karlekar, Diamond Publication, Pune, 2014.
12. Doorsamvedan aani Bhaugolik Mahiti Pranali (Marathi), Shrikant Karlekar, Diamond Publication, Pune, 2014.