

SOLAPUR UNIVERSITY, SOLAPUR.

Choice Based Credit System w.e..f .June 2016

B.Sc. Part – I SEMESTER -I

Sub – Geography Paper I B.Sc.

Name of the Paper: - GEOMORPHOLOGY

Code No:- SG -1

Total Lectures :45

Course No : SOG-101-S-1

Total Marks: 70+30=100

No of Credit: 2.5

Objectives: - 1) To introduce new concept of Physical Geography.

2) To give the knowledge about geomorphology to the students.

3) To give the basic knowledge about disasters occurred at different places on the earth.

Section - I

Sr. No.	Topic	Lectures
1	Meaning, Definition, Nature, Scope and Importance of Geomorphology.	03
2	a) Origin of the Earth –I chamberlin’s Hypothesis II Rusell’s Binary Star Hypothesis. b) Interior of the Earth- Temperature, Density and Layers. Views of different scholars about Interior of the Earth.	06
3	Drifting of Continents- I Wegner’s theory of continental Drift, II Plate tectonics theory.	06
4	a) Diastrophism:- I)Earth Movements- Orogenic and Eperogenic. Causes and effects with examples. b) Earthquake & Volcanoes- causes effects and their distribution with examples.	08

Section - II

Sr. No.	Topic	Lectures
1	Rocks – Origin, Classification/Types & characteristics of rocks.	04
2	Weathering of Rocks – Types and Effects.	04
3	I Concept of cycle of erosion II. Land Forms associated with River an agents of denudation	06
4	I. Land forms associated with wind, sea waves and glaciers as agents of denudation.	08

List of Reference Books

1. Chorley R. L. :- Spatial Analysis in Geomorphology, Meathum, Londen 1972.
2. Cooke R. U. & Doornkamp J. C. :- Geomorphology in Environmental Management An introduction clavendon, Oxferd, 1974.
3. Dayal P. A. :- Text book of Geomorphology, Shukla Book Depot, Patna, 1996.
4. Fair Bridge R. W. :- Encyclopedia of Geomorphology, Reinholots, New York, 1968.
5. Kale V. & Gupta A. :- Elements of Geomorphology, Oxford University press Calcutta.
6. Pitly A. F. :- Introduction of Geomorphology, Meathum. London 1974.
7. Singh S. :- Geomorphology, Prayag Pustakalay, Allahabad, 1998.
8. Spark B. W. :- Geomorphology, Longman, London, 1960.
9. Chorley R. J. :- Spatial Analysis in Geomorphology, Meathum, London1972.
10. Coole R. U. & Doornkamp J. C. :- Geomorphology in Environmental Management An introduction clavendon, Oxferd,1974.
11. Dayal P. A. :- Text book of Geomorphology, Shukla Book Depot, Patna.1996.
12. Fair Bridge R. W. :- Encyclopedia of Geomorphology, Reinholots, New York,1968.
13. Kale V. & Gupta A. :- Elements of Geomorphology, Oxford University Press, Calcutta.
14. Pitly A. F. :- Introduction of Gemorphology, Meathum, London 1974.
15. Singh S. :- Geomorphology, Prayag Pustakalay, Allahabad, 1998.
16. Spark B. W.:- Geomorphology, Longman, Londen,1960.
17. Thornbury W. D. :- Principal of Geomorphology, Waley Estern, 1969.
18. Woodridge S. W. & Morgen R. S. :- The physical basis of Geography an out time of Geomorphology, Longman Green & Coup London, 1954.

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B.Sc. Part – I SEMESTER – II

Sub – Geography Class –Paper II

Name of the Paper: - Climatology and Oceanography

Code No:- SG -1

Total Lectures : 45

Course No: SOG-102-S-2

Total Marks: 70+30=100

No. of Credit: 2.5

Objectives: - 1) To make the students familiar with new terms & concepts of climatology and oceanography.

2) To know the constituents of atmosphere and hydrosphere & its dynamic nature.

3) To know the contribution of atmosphere and hydrosphere in making the Earth habitable.

Section – I

Climatology

Sr. No.	Topic	Lectures
1	I. Definition, Nature, Scope and Importance of Climatology. II. Atmosphere – Composition & Structure. III Weather & Climate – Meaning , elements of weather, factors affecting on weather and climate.	05
2	I. Insolation – Meaning, Solar constant, distribution, factors affecting the Insolation . II. Heat Budget of the earth. III. Temperature-Factors affecting the distribution, vertical & Horizontal Distribution.	06
3	I. Atmospheric pressure- pressure Belts on the Earth. II. Planetary Winds. III. Cyclones & its types	08
4	I. Indian Monsoon	04

Section – II

Oceanography

Sr. No.	Topic	Lectures
1	I. Definition, Nature and importance of Oceanography . II. surface configuration of ocean floors	04
2	I. Temperature & salinity of ocean waters. II. Factors affecting the distribution of temperature & salinity of ocean waters.	06
3	I. Circulation of ocean waters –waves, tides and ocean currents. II ocean currents – Pacific and Atlantic Ocean.	06
4	I. Ocean deposits II. Coral reefs types & theories.	06

List of Reference Books

1. Berry R.G. & Chouly P. J. :- Atmosphere, Weather and Climate, Roulledge Longman & New York,1998.
2. Critchfield J. H. :- General Climatology, Printice Hall India, New Delhi,1993
3. Lal D. S. :- Climatology, Chaitan publication, 1986.
4. Mathur G. R. :- Climatology Mc Graw Hill New York.
5. Miller A. :- Climatology.
6. Triwartha G. T. :- An introduction to Climate, International Studies Edition, Mc. Graw Hill, New York1997.
7. Thomason R. D. & Perry A. :- Applied Climatology, Principal and Practice, Routedge London.1997.
8. Majid Hussain :- Physical Geography, Rawat Publication, Jaipur.
9. Hussain M Climatology & Oceanography.
10. Davis Richard J. A. Oceanography – An introduction To the Marian Environment. WMC Brooth Flowa, 1987.
11. Grald S : General Oceanography – An introduction Johan Waley & Sons, New York.
12. Garrison T:- Oceanography Warelsvarth Company U.S.A. 1998.
13. Sharma R. C. & Vatel M : Oceanography For Geqraper, Chetanya Pblishing House , Allahabad,1970.
14. K.Bharadwaj : Physical Geography, Oceanography. Discovery publishing House New Delhi (2006) .

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B.Sc. Part – I Annual Pattern

Sub – Geography Practical

Name of the Paper: - Cartography

Code No:- SG -1

Total Lectures : 120

Course No : SOG-101-S-1

Total Marks: 70+30=100

No of Credit : 04

- Objectives:** - 1) To make the students familiar with Physical Geographical data.
2) To train the students with different cartographic techniques.
3. To introduced the students Remote Sensing and Arial Photography

Sr. No.	Topic	Practical (04 Lectures Each)
1	I. Definition and Classification of Maps. II Remote Sensing – Definition, Elements, Applications and Satellites.	05
2	I. Scales- Methods of expression of scale. II. Conversion of Scale III. Construction of plain scale, Time and distance scale. (Only metric system)	08
3	I. Methods of representation of Relief - Spot Height, Bench Mark, Triangulation point, Colour tint, Hachures and contours. II. Representation of various landforms with the help of contours- hill, Valley, Plateau, Cliffs, Waterfall. III. Slopes - Methods of expression of slopes, Gradient, Degree, Percentage & Mills.	09
4	I. Representation of climatic data by Graphs and Diagrams a) Simple and Multiple line graph b) Simple Bar graph c) Line and Bar graph d) Climograph e) Hythergraph f) Windrose II. Weather Instruments- Construction, Mechanism & use of a) Thermograph b) Barograph c) hair hygrometer	08

Reference Books

1. Map work & Map Reading - Shri. Kumbhar
2. Elements of Practical Geography – Singh R.L.
3. Map and Diagrams - Monk House F.J.R.