

TUMKUR UNIVERSITY TUMKUR

CBCS-CAGP Frame work for Bachelors of Arts and Science

Subject: GEOGRAPHY

**Syllabus for I & II Semester
B.A/B.Sc. Geography**



2024-25 Batch Onwards

PROF. SHARADAMMA S.B.
Chairman
BOS in Geography (UG)
Tumkur University, Tumkur

Paper /Course Details

Subject: GEOGRAPHY

SEM	PAPER TITLE	TYPE OF THE PAPER	HOURS PER WEEK	DURATION OF EXAM	IA	EXAM	TOTAL MARKS	CREDITS
I	Fundamentals of physical Geography	DSC-A ₁ Theory	04	03	20	80	100	04
	Map and mapping techniques	DSC-A ₂ Practical	04	03	10	40	50	02
II	Principles of Climatology and Oceanography	DSC-A ₃ Theory	04	03	20	80	100	04
	Applied Meteorology	DSC-A ₄ Practical	04	03	10	40	50	02

Scheme of Valuation: Theory

CONTACT HOURS/ WEEK	CREDITS	Scheme of Valuation: Max. Marks: 100	
		Continues Internal Assessment (IA)	Semester End Exam (SEE)
04	04	C1-TEST-10 MARKS	C3-80 MARKS
		C2- ASSIGNMENT/FIELD ACTIVITIES- 10 MARKS	



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Scheme of Valuation: Practical


CONTACT HOURS/ WEEK	CREDITS	Scheme of Valuation: Max. Marks: 50	
		Continues Internal Assessment (IA)	Semester End Exam (SEE)
04	02	C1-TEST-05 MARKS	C3-40 MARKS
		C2- TEST-05MARKS	

DISTRIBUTION OF C3 MARKS: Practical

Total Duration of Practical Exam: 03 Hours

Section	Marks
Unit-1 (Practical Question)	10 marks
Unit-2 (Practical Question)	10 marks
Unit-3 (Practical Question)	10 marks
Record (Duly Certified Practical Record)	10 marks
Total	40 marks

- Practical classes will be conducted in batches. Each batch will consist of
 1. 1 to 19 students supervised by one teacher.
 2. 20 to 29 students supervised by two teachers.
- In each semester 75% attendance is compulsory for both theory and practical classes.


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SEMESTER –I
PAPER I: FUNDAMENTALS OF PHYSICAL GEOGRAPHY
(THEORY)

Credits: ~~04~~

Total Number of Teaching Hours : 60

UNIT-I: Introduction to Physical Geography:

Hours: 10

1. Geography; Meaning, Definition and Branches of Geography-- Physical and Human Geography.
2. Physical Geography: Meaning, Definition Nature, Field, Scope and Importance.

UNIT-II: The Dynamics of Earth:

Hours: 15

1. Theories of Origin of the Earth: Nebular and Big Bang theories.
2. Movements of the Earth; Rotation, Revolution and their effects.
3. Geological Timescale

UNIT-III: Structure of the Earth:


Hours: 15

1. Distribution of land and water
2. Structure and composition of the interior of the Earth
3. Continental Drift theory of Alfred Wegener and Plate tectonics theory.

UNIT-IV: Geomorphic Process and Evolution of Land forms:


Hours: 20

1. Folds and faults
2. Earthquakes, Volcanoes and Landslides- causes, types, distribution and consequences.
3. Formation of Rocks and its Types.
4. Weathering: Meaning, types and controlling factors.
5. Denudation: Agents of Denudation- River, Wind and Glacier.
6. Development of Landforms- Mountains, Plateaus and Plains-Meaning, Origin and Types.


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References:

1. Alan Strahler and Arthur Strahler (2007) – Physical Geography, (Second edition) – Science and Systems of the Human Environment. John Wiley and Sons, Inc., New Delhi.
2. AlkaGautam (2009) – Geomorphology- SharadaPustakBhawan, Allahabad, India.
3. Arthur Holmes (1957) Principles of Physical Geology, Thomas Nelson and Sons Ltd., New York.
4. Dayal P (1995) – A Text Book of Geomorphology, Shukla Book Depot, Patna, India.
5. Goh Cheng Lleong (2019), 'Certificate of Physical and Human Geography, Oxford Press, New Delhi.
6. Goudar M B, Physical Geography' (Kannada Version).
7. Hugar M R, Physical Geography' (Kannada Version).
8. Hussain M (2002), 'Fundamentals of Physical Geography', Rawat Publications, Jaipur.
9. JitenderSaroha&Surender Singh (2024), 'Physical Geography' First Edition, Pearson publications, New Delhi.
10. Lal D.S. (2009) – Physical Geography, SharadaPustakBhawan, Allahabad, India.
11. Mahapatra G.B. (2011) – Text book of Physical Geology, CBS publishers and Distributors Pvt.Ltd., New Delhi.
12. Mallappa P (2009), 'Physical Geography' (Kannada Version), ' Chethan Book House, Mysore.
13. Patwardhan A.M. (2010), 'The Dynamic Earth System' Second Edition, PHI Learning Private Limited, New Delhi-01.
14. Philip G.Worcester (1969), 'A Text book of Geomorphology', East-West press, Pvt.Limited, New Delhi.
15. Ranganath (2010), 'Principles of Physical Geography' (Kannada Version), VidyanidiPrakashana, Gadag, Karnataka.
16. Richard H Bryant (2011), 'Physical Geography Made Simple', Rupa Publications, India.
17. Roy A.B. (2010), Fundamentals of Geology, Narosa Publishing House, New Delhi.
18. SanjeevaRao P.C. & BhaskaraRao D (1996), A Text book of Geology, Discovery Publishing House, New Delhi-02.
19. Savindra Singh (2003) – Geomorphology, PrayagPustak Bhavan, Allahabad.
20. Savindra Singh (2020) – Physical Geography, Pravalika Publications, Allahabad.
21. Stephen Marshak (2009), Essentials of Geology, Third Edition, W.W.NortonCompany, New York.
22. Stephen Marshak (2015), Earth Portrait of a Planet, Fifth Edition, W.W.NortonCompany, New York.
23. Tikka R.N. (1995) – Physical Geography, KedarnathRamnath and company, Meerut, Uttaroradesh. India.


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SEMESTER –I
PRACTICAL I: MAP AND MAPPING TECHNIQUES

(PRACTICAL)

Credits: 02

Total Number of Teaching Hours : 45

UNIT-I: Cartography:

Hours: 15

1. Maps -Meaning, Definition Types and Importance.
2. Scale-Meaning and Types, conversion of scales and Construction of graphical scales- Linear and Diagonal.
3. Geographical coordinates system- Latitude, Longitude, enlarge and reduce.

UNIT-II: Identification of Rocks and Relief Profiles:


Hours: 15

1. Identification of Rocks and minerals: Granite, Basalt, Limestone, Sandstone, Quartzite and marble, iron ore, manganese, bauxite.
2. Construction of Relief Profiles – Serial, Super Imposed, Projected and Composite.
3. Calculation and Measuring of Slope and Elevation.

UNIT-III: Interpretation of Relief Features:


Hours: 15

1. Contours, Hechure, Spot Height, Bench Mark.
2. Hills – Conical hill, plateau, Ridge.
3. Slopes- uniform, undulating, concave and convex.
4. Valley- ‘U’ Shaped and ‘V’ Shaped valley.


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1. AshisSarkar (1997), 'Practical Geography, A Systematic approach', Orient Longman, New Delhi.
2. Gopal Singh - Map work and Practical Geography , III edVikas Publishing House,
3. Gupta K.K and Tyagi V.C (1992), ' Working with Maps', Survey of India Department of Science
4. Jackie Smith B.A (1983) , ' Dictionary of Geography', Cosmo Publications, New Delhi
5. John and Keats (1989), - Cartographic design and production, II edition, Johnwiley, New York
6. Mishra R.P (1969) ' Fundamentals of Cartography', Prasaraanga, University of Mysore, Mysore
7. Monkhouse F.J (1952): ' Maps and Diagrams', Wilkinson H.R: Mathuen and Co, Ltd., London. New Delhi,
8. Phyllis Dink (1967) - Map work, x (ed) Atma Ram & Sons, Delhi.
9. Pijushkanti Saha and Partha Basu (2010): 'Advanced Practical Geography Book, Allied Publications, Kolkata.
10. Raisz E (1948): General Cartography, Tata-MC-Graw Hill, New York.
11. Ranganath – An Introduction to practical Geography, part – I Kannada version,
12. Singh. R.L (1979): ' E.lements of Practical Geography', KalyaniPublishers,New Delhi. Technology, Govt of India,Dehra Dun . Vidhyanidhi publication, Gadag – 582101, Karnataka


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SEMESTER –II
PAPER II: PRINCIPLES OF CLIMATOLOGY AND OCEANOGRAPHY
(THEORY)

Credits: 04

Total Number of Teaching Hours: 60

UNIT-I: Elements of Atmosphere:

Hours: 10

1. Climatology: Meaning, Nature, Scope and Importance.
2. Atmosphere: Origin, structure and composition.
3. Weather and Climate: Meaning, Elements, Controlling factors and Climate Change.

UNIT-II: Temperature and Pressure:

Hours: 15

1. Temperature- Insolation and Factors Affecting the Insolation, Heating and Cooling Process of the Atmosphere. Heat budget, Vertical and Horizontal Distribution of Temperature, Inversion of Temperature.
2. Pressure: Influencing factors on Atmospheric Pressure, Distribution of Atmospheric Pressure- Vertical and Horizontal, World Pressure belts, shifting of pressure belts.

UNIT-III: Winds and Humidity:


Hours: 15

1. Winds- Meaning, influencing factors and types.
2. Humidity- Meaning, Types-Absolute, Relative and Specific
3. Precipitation- Meaning, Types and impact on weather and climate.

UNIT-IV: Oceanography:


Hours: 20

1. Introductions of Oceans.
2. Relief Features of Bottom of the Ocean.
3. Temperature and Salinity of Ocean Water- Influencing factors and its distributions.
4. Ocean currents- Causes and Types Ocean currents- Pacific, Atlantic and Indian Ocean.
5. Ocean tides- Causes, Types and Consequences.


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1. Alan Strahler and Arthur Strahler (2007) – Physical Geography, (Second edition) – Science and Systems of the Human Environment, John Wiley and Sons, Inc., New Delhi.
2. Barry, R.G. and Chorley R.J. (2003), 'Atmosphere, Weather and Climate, 4th Edition, Routledge Publications, New Delhi.
3. Company, New York.
4. Critchfield H J (1975), 'General Climatology' 4th Edition, PHI, New Delhi.
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6. Goudar M B, Physical Geography' (Kannada Version).
7. Hugar M R, Physical Geography' (Kannada Version).
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9. Jitender Saroha & Surender Singh (2024), 'Physical Geography' First Edition, Pearson publications, New Delhi.
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16. Ranganath (2010), 'Principles of Physical Geography' (Kannada Version), Vidyanidi Prakashana, Gadag, Karnataka.
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22. Trewartha G T (1980), 'An Introduction to Climates', 5th Edition, McGraw Hill, New York.


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SEMESTER –II
PRACTICAL II: APPLIED METEOROLOGY.

(PRACTICAL)

Credits: 02

Total Number of Teaching Hours : 45

UNIT-I: METEOROLOGY- Measuring Instruments:

Hours: 15

1. Importance of meteorology data- Indian Meteorological Data (IMD).
2. Devices used to measure and record Meteorology data and their working principles.
 - a) Centigrade and Fahrenheit thermo meter.
 - b) Mercurial Barometer and Aneroid Barometer
 - c) Wind vane and cup Anemometer
 - d) Rainguage- self recording

UNIT-II: Representation of meteorological data:

Hours: 15

1. Simple line and Poly line Graph.
2. Bar Graph- Vertical and Horizontal.
3. Climograph, Hyther graph and Ergo Graph.

UNIT-III: Interpretation of Indian daily weather charts :

Hours: 15

1. Introduction of weather map- conventional symbol and sign.
2. Observation and interpretation of departure of maximum and minimum temperature from Normal temperature.
3. Observation and interpretation of Indian Daily Weather Charts- Pressure condition and Pressure Gradients.
4. Observation and interpretation of Indian Daily Weather Charts- Wind direction and Wind Velocity.
5. Observation and interpretation of Indian Daily Weather Charts- Cloud conditions, Precipitation, Sea condition and Weather forecast.

(Interpretation shall be made on at least Two seasons- Rainy, Winter and Summer seasons).



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3. Ranganath – An Introduction to practical Geography, part – I Kannada version, Vidhyanidhi publication, Gadag – 582101, Karnataka
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Subject: GEOGRAPHY
QUESTION PAPER PATTERN -2024-25 Batches Onwards

Instructions:

1. Answer all parts.
2. Draw maps and diagram wherever necessary.

Time: 03 hours

Max Marks: 80

PART-A

I. Answer any Five questions of the following.

5 X 2= 10

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

PART-B

II. Answer any Six questions of the following.

6 X 5= 30

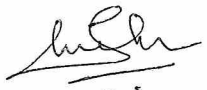
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.

PART-C

III. Answer any Four questions of the following.

4 X 10= 40

- 16.
- 17.
- 18.
- 19.
- 20.
- 21.


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