

# THE COURSE STRUCTURE & SYLLABUS OF B.A. /B.Sc. GEOGRAPHY

I and II Semester

Academic Year 2024-25 Onwards

## **PROGRAM STRUCTURE**

Syllabus and Credits Structure under Choice Based Credit System [CBCS] General Degree for the Three Years **B.A. GEOGRAPHY** Undergraduate Programme with effect from 2024-25.

# First Semester B.A. GEOGRAPHY

			S	EMES	TER-I	-					
	Course code	Title of the	Marks			Teaching hours/ week			Credits	Dur atio	Teaching Departmen
		Paper	IA	SEE	Total	L	Т	P		n of Exa m (Hrs)	t
L1		Language 1	20	80	100	4	-	_	3	3	-
L2		Language 2	20	80	100	4	-	-	3	3	-
Major	2B1GEOM01T	Principles of Geomorphology	20	80	100	3	-	_	3	3	GEOGRAPHY
	2B1GEOM01L	Interpretation of SOI Topo sheet	10	40	50	-	-	4	2	3	GEOGRAPHY
Major		Major Subject 2	20	80	100	3	-	-	3	3	
		Practical	10	40	50	-	-	4	2	3	
Major		Major Subject 3	20	80	100	3	-	-	3	3	
		Practical	10	40	50	-	-	4	2	3	
Common	2S1XXXC01T	Constitutiona I Values	10	40	50	2	-	-	2	2	Constitutional Values: Political Science
	2S1XXXC02T	Environmental studies									Environmental Studies,: Chemistry/ Geography / Botany
	1		Total I	Marks	700		nester edits	1	23		

## Second Semester B.A. GEOGRAPHY

					SEME	ESTE	CR-	Π			
Category	Course code	Title of the	Marl		rks				Credits	Duration of exams	Teaching Department
		Paper	IA	SE E	Total	L	Т	P		(Hrs)	
L3		Language 3	20	80	100	4	-	-	3	3	_
L4		Language 4	20	80	100	4	-	-	3	3	_
Major	2B2GEOM02T	Fundamentals of Climatology	20	80	100	3	-	-	3	3	GEOGRAPHY
	2B2GEOM02L	Interpretation of IMD Weather Maps	10	40	50	-	-	4	2	3	GEOGRAPHY
Major		Major Subject 2	20	80	100	3	-	-	3	3	
		Practical	10	40	50	-	-	4	2	3	
Major		Major Subject 3	20	80	100	3	-	-	3	3	
		Practical	10	40	50	-	-	4	2	3	
Common	2S1XXXC01T	Constitutional Values	10	40	50	2	-	-	2	2	Constitutional Values: Political Science
	2S1XXXC02T	Environmental Studies									Environmental Studies: Chemistry/Geography / Botany
	1	То	tal N	Iarks	700		nes redi		23		

Year	I	Course Code: : 2B			Credits	03
Sem.	1	Paper Title: PRI	NCIPLES OF GEOMORPHOLOGY		Hours	40
Internal As	ssessn	nent Marks: 20	External Assessment Marks: 80	Duration Exam: 0		

**Objectives:** The objective of the course is to familiarize the students with the need to understand of geomorphology about certain fundamental concepts, focusing on the unity of Geomorphology in the earth's materials and the processes with or without an element of time. The process of component of Geomorphology is segmented into the internal and external processes of landscape evolution.

Unit No.	Course content :	Hours
Unit I	Introduction to Geomorphology: Meaning, definition, nature, scope, significance and Modern Techniques in Geomorphology.	10 Hours
Unit II	Earth's Interior- Internal structure of the Earth- Earth Movements- Orogenic movements and Epeirogenic movements- Tectonic Features-Faults and Folds, Types, formation processes, and related landforms.	10 Hours
Unit III	Theories: Wegener's Theory of Continental Drift. Plate Tectonic Theory. Weathering and its types. Rocks- Origin and Types, distribution and economic significance. Rock Cycle	10 Hours
Unit IV	Endogenic and Exogenic Forces; Endogenetic Forces-Internal processes shaping the Earth's surface. Earthquakes-Causes, effects, distribution of earthquakes in India. Volcanoes-Types, causes, effects, and distribution. Exogenetic Forces. Erosion and Weathering- Processes, factors, and resultant landforms Mass Wasting: -Types and processes. Tsunamis- Causes, effects, and mitigation measures.  Agents of denudation: Meaning and Process-Rivers- Fluvial processes, landforms, and drainage patterns.  Wind- Aeolian processes, desert landforms.  Glaciers- Glacial processes and its landforms.  Underground Water- Topography and landforms  Sea Waves- Coastal processes and landforms, Human Impact on Geomorphological Processes-Anthropogenic activities and their effects on geomorphology	10 Hours

Year	I	Course Code: 2B1G	EOM01L		Credits	02	
Sem.	1	Course Title: IN	TERPRETATION OF SOI TOPO SHE	ETS	Hours	50	
Internal A	ssessn	nent Marks: 10	External Assessment Marks: 40	Duration Exam: (			
Unit No.	No. Course content			_	Hour	rs	
Unit I			nes of Maps: Importance of SOI Topogon of color conventional symbols of topogon		15 Hours		
Unit II  figures and a six-figure Contour diagrams: ridge/water divide, es Symbols: triangulate relative height/ depth. using the scale. Locational Points: ei Identification of dr			s: steep slope, gentle slope, hill, vall escarpment.  ated height, spot height, benchmark, ath. Measuring distances and calculating a	ey, and rea	15 Ho	ırs	
Unit III	Unit III  Interpretation of SOI Topo sheets with reference to Physical Features: a) Relief b) Drainage system c) Natural Vegetation			•	10 Hours		
a) Settlement an			on of SOI Topo sheets with reference to Cultural Features: ent and its patterns b) Transportation and Communication ure and Irrigation				

#### **Recommended Learning Resources**

#### **Reference:**

- 1. Savindra Singh: Physical Geography
- 2. Strahler & Strahler: Physical Geography
- 3. R. N. Tikka: Physical Geography
- 4. Majid Hussain: Physical Geography
- 5. Das Gupta & Kapoor: Physical Geography
- 6. Triwartha. G. T: An Introduction to Climate
- 7. Savindra Singh: Climatology
- 8. Prof. S. S. Nanjannavar (2019): Physical Geography (Kannada Version)
- 9. Dr. Ranganath (2020): Physical Geography (Kannada Version)
- 2. Dr. S.S. Hanagaragi (2007): Climatology and Biogeography (Kannada Version)

Year	I	Course Code: : 2B	2GEOM02T		Credits	03
Sem.	II	Paper Title: FU	NDAMENTALS OF CLIMATOLOGY		Hours	40
Internal As	ssessn	nent Marks: 20	External Assessment Marks: 80	Duration Exam: 0		

**Objectives**: This course aims to provide an understanding of Climate and weather phenomena, the dynamics of global climate, and the interaction between living organisms with climate and physical environment.

Unit No.	Course content :	Hours
Unit I	Introduction to Climatology: Definition, nature, scope and significance. Weather and. Climate- and its interrelationships. Elements of Weather and Climate-Temperature, humidity, precipitation, wind, pressure. Controlling Factors-Latitude, altitude, distance from the sea, ocean currents, topography.	10 Hours
Unit II	Structure and Composition of the Atmosphere: Structure of the atmosphere. Composition of atmosphere and its significance. Atmospheric Temperature-Heat Balance (Budget). Factors Influencing Temperature Distribution- Latitude, altitude, landwater contrast, ocean currents, and seasonal variations. Temperature Distribution- Vertical, horizontal and inversion of temperature.	10 Hours
Unit III	Atmospheric Pressure and Winds: Atmospheric Pressure - Measurement of Pressure- Barometers and other instruments. Global Pressure Belts. Winds and its types Planetary Winds, Trade winds, westerlies, and polar easterlies. Seasonal Winds-Monsoons, mechanism and impact. Local Winds-Land and sea breezes, mountain and valley breezes. Jet Streams-Characteristics, formation, and its effects. Air Masses: Definition, nature, characteristics of air masses. Source Regions and Classification. Fronts and its types.	10 Hours
Unit IV	Atmospheric Disturbances: Cyclones and Anticyclones- Global patterns and regional variations. Tropical Cyclones-Formation, characteristics and effects. Temperate Cyclones-Formation and its effects. Climate Change and Cyclones  Precipitation: Hydrological Cycle- Processes and significance.  Humidity- Measurement and its types. Factors Influencing Humidity. Clouds- Formation and its types. Process of Condensation Types of rainfall Convectional, Orographic and Cyclonic rainfall, global distribution of rainfall patterns and influencing factors	10 Hours

Year	I	Course Code: 2B2G	EOM02L		Credits	02
Sem.	II	Course Title: IN	MAPS	Hours	50	
Internal As	ssessn	nent Marks: 10	External Assessment Marks: 40	Duration Exam: 0		
Unit No.		Course content			Hour	'S
Unit I		of IMD weather may various sectors in management. Types of	ther Maps: Meaning, Understanding the signals in meteorological analysis and forecast cluding agriculture, transportation, and of synoptic weather maps, satellite imagery, a ian Meteorological Department and Significant	ting for disaster and radar	15 Ho	urs
Unit II	Weather Instruments and Measurement: Detailed study of the working				15 Hours	
Unit III		reports and forec	er Report: Weather signs and symbols, vasts, Station model- Comprehensive eral Information of IMD Weather the format, content, and updates of the ort by IMD	of the Maps-	10 Ho	urs
Unit IV		Seasonal Weather P (One map for each se	l Variability- Understanding spatial variation		10 Hot	urs

#### **Recommended Learning Resources**

### Reference:

R. L. Singh: Elements of Practical Geography

Gopal Singh: Practical Geography

Dr. Ranganath: Practical Geography (Kannada Version)

Singh and Kanoj: Practical Geography

R. P. Misra and Ramesh: Fundamental of Cartography

M. F. Karennavar & S. S. Nanjannavar: Practical Geography

M.F. Karennavar & S. S. Nanjannavar: Practical Geography

(Kannada Version)

Pijushkanti Saha & Partha Basu: Advanced Practical Geography

https://mausam.imd.gov.in/

Prof. S. S. Nanjannavar (2021): Practical Geography (Kannada Version)